

SEQUENCE LISTING

<110> Sun, Yongming  
Recipon, Herve  
Salceda, Susana  
Liu, Chenghua  
Turner, Leah

<120> Compositions and Methods Relating to Breast Specific  
Genes and Proteins

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<150> 60/243,805

<151> 2000-10-27

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<170> PatentIn Ver. 2.1

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actcttcatc gaaatagaat tccccTTTtgc tcgcatctcg cattttggc cataaggTcc 120
atgggtgtcc tgtccCTTgt ggccCTggct ctgagtgctg cccCTCCTCC tccCTCTGCT 180
ctggccaggt gaggCTTCTC ctccAGGGGT tttccACCTT tgctgtggTT gtctCTTCCA 240
ccaaAGAGAG ccCTCCTGTT ccccACCACa tccCTGCCAG CCTCTGACCT gtctgtgtCT 300
ccAGCTCTTC ccAGAAAGCCC tccCTGGCAG CTCCtGTCTT CCTCTGTGTT atcCTGTGAG 360
caccACAGCC tcCTGTACAC CCTGAGCTAT gcCTCTCAAG gcCCTCCACC agCTCATCCC 420
ctgctgtggg cacaAGCCCT gCTTTCAGAG tttccCTGCC CAGGGAATGA atGCCCTTG 480
agAGACCAcA catatGCTGC aAGTCCAGCC CTGCTCAGAG CGTTCTTtG ccaaATAATC 540
acCTTGTtat taaAGAGCTG attGTTCTAC tagACTCTTC tattCTTATG gttcacCCATG 600
aaAGACCAgT taattCACTT tttaaaaATT acTTCAAGAG CCTGTGTTT ggCCG 655
```

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<210> 20  
<211> 532  
<212> DNA  
<213> Homo sapiens
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<220>  
<221> unsure  
<222> (270)..(313)  
<223> a, c, q or t

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<400> 20
aaaaaaaaaaaaaaaagaa aaaaagaaca agaaaagaaaa atggtttatg tgaactaaaaa ggttggggc 60
attttgggg caaataacag caccaattc ccagatccta aatgtttcag ttatgaaata 120
tttgaagtac ctctgaattt acacataggc attccactca tgtaagcact cattgatttt 180
aagattttc attcatcaaa agggaaaatg tgggctgcc aatgtataat ttttgtcata 240
caaaaaaagag atataaaagt taaaattagn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnncntataca tctgtttaga tggaaatgtt gacgtggaag tgtatcactt 360
cctgttttac gtccctgtgt aaaacaatca catttcctta ttgatgactg tcttccaaca 420
gaaacgtaat catcttcaag gttagaaaat gttttttaaa taacttcaac cagcgtaaac 480
caaactqgtt aattcaccaa aatgttaacc aaaattaacc aaatcaaatt tg 532
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<210> 21  
<211> 968  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (269)..(312)  
<223> a, c, g or t

<400> 21  
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attttgtggc aaataacagc accaaattcc cagatcctaa atgtttcagt tatgaaatat 120  
ttgaagtacc tctgaattta cacataggca ttccactcat gtaagcac tc attgatttta 180  
agattttca ttcatcaaaa gggaaaatgt gggctgccat atgtataatt tttgtcatcc 240  
aaaaaaagaga tataaagtta aaaattagnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnctatacat ctgttttagat gggatgtt acgtggaagt gtatcacttc 360  
ctgttttacg tccctgtgta aaacaatcac atttccttat tgatgactgt cttccaacag 420  
aaacgtaatc atcttcaagg ttagaaaatg ttttttaat aacttcaacc agcggttaacc 480  
aaactggta attcacccaa atgttaacca aaattaacca aatcaaattt ggttatttt 540  
ccagggtctct tttttttttt cttttttcat ttttgagag atgggatctt gctatgttgc 600  
ccaagctaaa atgcaacttg ttattcacag gcatgataat agtgccttat agcctcgaac 660  
tcctgggccc acatgatcct cctgccttag cctcctgagt attcccaggt tttcttaat 720  
agtttaaaca ggttagttcct ggtttggct atcagatagt gctgtctaca cttaggctttg 780  
tcttgcttac ttctattctc ccattctctc tgcgaccaag tcttgatctg ttggccccggc 840  
tgggagttgc ccggcgcgcg cacctcgccc acctgcaccc cccccccggc tccgcattcc 900  
cgcgcggcc ccaatcctgc ttcccgggccc tccccccccc cctgccttc cccaacccccc 960  
gttccccg 968

<210> 22  
<211> 258  
<212> DNA  
<213> Homo sapiens

<400> 22  
ggtaatgtt taactcattt cctggttgtc tctattctgt aaggatgtct gacccagcta 60  
actttgtaac acaggaattc tgcactcatt actgttttg cattctcaag ccccgagg 120  
ggcacacaag tggtaatga gtatttaact gattgcata agaataaatt cattgatttc 180  
tttgattttt tggctgtgtt tttcagtgtt aaaaatgtt aacgggtggc 240  
tcacgcctgt aatcccg 258

<210> 23  
<211> 441  
<212> DNA  
<213> Homo sapiens

<400> 23

acagattaaa actgtaacct actatcaa aataagttaa atttaagaaa atgataagcg 60  
acatgaaaga acagtgtaaa tcagaattag aaaaatttaa gatgacataa cagaactcaa 120  
gaatagaatt ataaatgaaa gaaaaatttt ctgaaataaa aaccacagaa gaacacccaa 180  
gtgagtaaac aaaaaagaca atgccttagg gcagcagtct ccaaagtgtg ttccagtcct 240  
gtagaccctc ttagggaccc tgttcacagt taatactaag atggtaatt gctttgcc 300  
actttggaa aagcacatct tgttttttt tttaaactga catttgatt gataatacaa 360  
aagaaatggc aggtaaaact accttagcac taatcaagaa agtgacacca tatcatattt 420  
agagtcttca ctgccatggc a 441

<210> 24

<211> 604

<212> DNA

<213> Homo sapiens

<400> 24

acagattaaa actgtaacct actatcaa aataagttaa atttaagaaa atgataagcg 60  
acatgaaaga acagtgtaaa tcagaattag aaaaatttaa gatgacataa cagaactcaa 120  
gaatagaatt ataaatgaaa gaaaaatttt ctgaaataaa aaccacagaa gaacacccaa 180  
gtgagtaaac aaaaaagaca atgccttagg gcagcagtct ccaaagtgtg ttccagtcct 240  
gtagaccctc ttagggaccc tgttcacagt taatactaag atggtaatt gctttgcc 300  
actttggaa aagcacatct tgttttttt tttaaactga catttgatt gataatacaa 360  
aagaaatggc aggtaaaact accttagcac taatcaagaa agtgacacca tatcatattt 420  
agagtcttca ctgccatggv aaaagaaaaga aagaaagtaa gagagagaga aagagaaaagr 480  
gagaaacaga gaaagagaga aaggaaaaga aagwtaagag aaaagaaaaga aaggaaaaaa 540  
aagaaagaaaa aaaaaggaaa gaaaaggaaa aagaaaaaaga aaagaaaaga aaggaaagat 600  
tgaa 604

<210> 25

<211> 406

<212> DNA

<213> Homo sapiens

<400> 25

tttggtagaa gcatatgaag aaaatgaaag ctcatggaaa taggtagttg gaaagcaaag 60  
aggattttgt tggcttgg agataatcca taaatacggtt ctttgataact atgcccac 120  
tctactgtac acttgtgagc aaatgagagt gaaaaaggca tataacgtct tagcattatg 180  
aaaatagttt taacttgca gatcccctga gaggtcttg gggataacca gcagtcctg 240  
aaccacagtt ttagaaagta ctctggtta gatatgattt tctttttctt tctattgtaa 300  
aagttcaagt aaagtttatt ccctctatc ttattacaca agcatattaa caaaggaagc 360  
taaaacaaag acagcagtct cagtaactcag tatatttctt attagt 406

<210> 26

<211> 246

<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (65)  
<223> a, c, q or t

<220>  
<221> unsure  
<222> (70)  
<223> a, c, q or t

<220>  
<221> unsure  
<222> (83)  
<223> a, c, q or t

<220>  
<221> unsure  
<222> (88)...(89)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (91)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (93)  
<223> a, c, g or t

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<400> 26
gcaggcctga gcaaccacgc ctggcctcggttattgatttttaacttcatcccattgttc 60
ttggggggtn tgcttgtat ganatctnng ncnttgaatctaggcctaattggtagcccta 120
acttaccgccc ttccctggaa aatgtcccat gtgtacttgg gaaggatgtgttattctgttg 180
ttgttaggta cagtgttctgtgtgccctgg taaatcaaattggcttatcg tggcccttca 240
aqtqct 246
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<210> 27  
<211> 190  
<212> DNA  
<213> Homo sapiens

<400> 27  
cagataaata tcagatgagt caggaggta cctgactctt aggttaccaa tattacctga 60

atggatctt gaaatattgac atttattaag gaaaactctt ccttagtaga aacatcattt 120  
gaaagaccaa aataagtgtc tccatgaagc tagtaacgt cttattatta atatttttt 180  
aatcaggta 190

<210> 28  
<211> 653  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (229)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (356)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (443)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (474)  
<223> a, c, g or t

<400> 28  
ggaatttcca ggcttatcca ctcagttgta tgtggcagga cgagggttt agctgcagtc 60  
catgtggcta ttgattcagc ttatgttctc tagtgctggg cagggaggag ctgacccca 120  
tggtttgtt atgtgtgctg gttagggccc tgcattgccag tcaagctctt gtcctacagc 180  
ctgcctgtgg gaggatctca gtgtgaggtc tggagccctg gaacgaggnc cacctggct 240  
cactctcttc atactggagc agggaaaggc cagagagagc tgcagaccgg aaagtggatg 300  
gtctggggtc ggagtccggc ccctgtcacc agctgtgagt cattaagcca gactcnaggc 360  
taaggcttcc tcattctgtta aacagcgaca cgcaggggac tgctcatctt tcaggtgcga 420  
ggttggggga gtgggggtg ggnacaggca tggtaactg catgtggaaag gggntgttgt 480  
tcttgggtat ctggaaagtca cacgtggta taaactggga gcatgtgtgt gtttgttaat 540  
agtcttgctc cccaaaatat tctaataatag ctcacaagca cgcacgttaag cttcaagat 600  
agaaaatctgt gagtgaagaa aatgaggcaa agggaaaata agaaaagaca gct 653

<210> 29  
<211> 822  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (806)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (818)..(819)  
<223> a, c, g or t

<400> 29  
cacaattaag aaacactgtt agaaattta ctcaaatgat ataattgatt aagagtagg 60  
tcttcctata agtatcatct atgactcatt aaatactatg aatttgatg tccaaaaaca 120  
aatacaggc tgattatgta caattccaga aatatcatta attaattcacc actcatttt 180  
aagatgtgt aagactgtaa tattggctag tgaattttat cagtattaaat atgcataaaaa 240  
cccacattcc tcttttgat ttgatgtt atagcatgta tgtattgcta ttttctctt 300  
ttttgaagt ggtgaggaat catgcacagt caatatgctg ggttccttta gaaatgactt 360  
tagctcctgt ctgaaggcag gaaaaacttc ttttaagga actttcatca ttgcctttta 420  
cttttctat gatgggtttc atgagcactg aaatcacttg gagaggcaat gcaaagaaaat 480  
ctatctaaaa cagcttcttg gcaccctgga gttacagctt tgaagggctc caacgtaagg 540  
gaagcttaat gcttccgaat attgacattt actccttggg taaaattttg tccaaatata 600  
aaattcttca tggcaacaa ctaaatgtaa taaatgaatt tcataatatac ttacatgata 660  
tcttgagat taaattaatt atcctttgtt aggaactgac agctttgggt agattatttt 720  
ttcagttgaa atgtgttgct aacaatatgc ttacacttga acgctgtttt tcataatttat 780  
aggaagacac aaatttctca gggaaancagc tttgtganng aa 822

<210> 30  
<211> 682  
<212> DNA  
<213> Homo sapiens

<400> 30  
atcaggtaca cagagttgc aaggtggat ggcaaaagga tcacagattc ttacaaggc 60  
attataagta ctgcttggc tagaaaaatg atctttttc acccaatctg agggaaaaga 120  
tacactttct tccttacttt cctctttcc cattgtcctt ctttaaagac tagcagcagc 180  
agaatttgga aaataaataa tgggcattttt ttgctaataa tcatgacaaa ctataataat 240  
ctgtttgaa ttttacttgc ctgtttctaa attttggagt ctagagaact gctatcaaag 300  
ggtaaaatat agtgattcac ctgcagttt ggttacaggt ttcatattac ataataaaagg 360  
gagaacttga gccccacctt tccccccatgt tattccttgc ataggcaacc tctgctgctt 420  
aaatgttttgg gagactttgg gatgtctgtt ttcaactgta ccgtgaaaca ggttagtggct 480  
tgacttagta agcatctgaa ggactgtttt gttctactct tgcagagtag agtagtttc 540  
aaaaggaaag gaaaggaatt gttgagttggg acctatgaaat tatagcagga tggatagaat 600  
atgaggcaga tgggtccttag ttgcttaaag agcttgggcc gtctgataag ttgtctttct 660  
tgccaaacaa gggagtcacg tg 682

<210> 31  
<211> 1498  
<212> DNA  
<213> Homo sapiens

<400> 31  
aatatatccg gcctatccta acagtattgg aagggtggacc ctttaagagg taggtatcaa 60  
tgacattatac actggacaca ggagtggct cttgatagaa aaaatgaatt cagctcaact 120  
tcctctgtct cacgtgctct catcctctca cctttacta tgggatgacc ctcaacagat 180  
gccaggtgtca tggttcttggaa ctttccagtc ttcaaatca tgagccaaat aaatctctt 240  
tctttactt aattactttt ttttttttt tttttagag atgggggtctt attatgttgc 300  
ccaggttggt ctcgaattca tgggctcaag cgatcctcct gcctcgccct cccaaaatgc 360  
tgggatttga agcataagcc accacgccc ggcataatc tctttctt aaaaattatcc 420  
attatccaat ctgtggttac agcaacagaa aatagactaa gacaagaggt aaaggaaagg 480  
aggcagggaa gttaggcagga gggcaggaaa gaatgaagga aagggaaacg aagagaggca 540  
ggggaaggaa ggggtgttga cagggaggtg gaaaggaag ggaagtgagg aaggaggca 600  
aggaggcaac gaaacaggga ggcaggaagg acaggcaacc tcggtgactg aaaaagctt 660  
acaatgtgta taccccacgt gactcccttg tttggcaaga aagacaactt atcagacggc 720  
ccaagctctt tagcaaacta ggacccatct gcctcatatt ctatccatcc tgctatacgt 780  
cataggtccc actcaacaat tccttcctt tcctttgaa aactactcta ctctgcaaga 840  
gtagaacaaa acagtccctc agatgcttac taagtcaagc cactacctgt ttacacggc 900  
agttgaaatc agacatccca aagtctccaa aacatttaag cagcagaggt tgcttatgca 960  
aggaatacac tgggggaaag gtggggctca agttctccct ttattatgtt atatgaaacc 1020  
tgtaacaaa actgcaggtg aatcactata ttaccctt tgatagcagt tctctagact 1080  
ccaaaattta gaaacaggca agtaaaattc aaaacagatt attatagtt gtcatgatta 1140  
ttagcaaaac atgcccatta ttatccctt aaattctgtc gctgctagtc tttaaggaag 1200  
gacaatggga aaagaggaaa gtaaggaaga aagtgtatct ttccctcag attgggtgaa 1260  
aaaagatcat ttcccttagcc aaagcagttac ttataatgac cttgtaaagaa tctgtatcc 1320  
tttgccata ccacccgtca aactctgtgt acctgttca tggccaggca cgggtggctca tgccctgtaat 1380  
acattcggag agttttaaa atatggagg tggccaggca cgggtggctca tgccctgtaat 1440  
ccactgcgccc cggccctaaa aagactatta aagcaagttt ctggattaat ctgagttt 1498

<210> 32  
<211> 447  
<212> DNA  
<213> Homo sapiens

<400> 32  
cagatgtttg tgctagaagc tggggtttgcgtccctt gtgcattgttgcgtccat 60  
ccagtggtt ggtattttaa catcatgctc aggtgtgcag ggtgtttt gagttataat 120  
aggatgcag ggcgtgtggg attacttgtt tgtttatgtt aaaattttt tgcaactcact 180  
tctgaaatga gtgttagtag aatcatctt agaggaggat ccaaggcatt gaactgagat 240  
acctgcactg tttgctgtttaa atttaagctt aaaattgaaa ccaggttac agcatttcat 300  
gccaggagag agtgggcattt aatgatttca gggaaatgttca agcttagattt cagccttgaa 360  
tttgcttcca cccttctgtt gcaattttttt gtgggttcac tgccactttt atctgcccgt 420  
ggttattttt tttaccagac agggtgtt 447

<210> 33  
<211> 176  
<212> DNA  
<213> Homo sapiens

<400> 33  
gtcctttgta attgactttt ttactgaac atgatgttc aattactata gcatgtatca 60  
gtactttatc acccatgggg tgtaaaaat acagttaaa aatacagtct ttcacatgtc 120  
ctacaaagtg ctagaaaaaa aattttaaaa attgacgggg cgccaggggct gatgcc 176

<210> 34  
<211> 307  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (28)  
<223> a, c, g or t

<400> 34  
ggtaagagaa gcatctgtat aggaggcnag agatctgagt cctttgaag gcctatcctc 60  
tgctctgtat ctcaattact gttttcatt tcaattattc ttacctacta ttcaagttccc 120  
ttgatctttt cttcttgggg gctgtcttag ggtcagggag attgcagaag caccagaact 180  
aggagcagcc ctgagacatg gggagttgga gctgaaggag gaatggcagg atgaagaatt 240  
cccttaggtga ggacgtgtga gggtggctgg gagaagggag gggtggtcac gaatggacgg 300  
agggat 307

<210> 35  
<211> 1104  
<212> DNA  
<213> Homo sapiens

<400> 35  
caacagctga gacagaaaag aggttaaggaa gtgttgggg ctgggacaac cagctcccc 60  
acaactccta ggttttaaa gaaggaggca ggaagacttg tgaagatggg aactatacaa 120  
gagggcaggaa aaaagacaga tgttggtaa gtaagatctt ggctcaactt attggtaaca 180  
gtataataac agtccggaga gacttcccc ccaccagct cttactgggt caaatctcg 240  
gttcctcaag gagacaagac tgtaagagag tttgcagaga agagatgagg gtggtttag 300  
gttagaaatg tcagtagtgt atggaactgg ggaacaggat tccaggataa ttccctgggt 360  
taaaaataaa ggaagttct gtaatatgtt gtacctgata aatctgcctg tgttctttta 420  
ttttcttaacc ctcaccctcc agaatgtcca tcagaaaagt ctgaaccaga accgagttta 480  
ggtccaggtt ctcgtctgg caaatcttc tccttacatt cttcctccac ccctccac 540  
atgccatgtt ttcccttagc cactccccag ctcgggtggag gaaaggcagg cctaactagg 600  
taccgtcttc ccgactttgc tcaatgatag ctgggtgggt ctagctgggt tccagccact 660

tgtatgtgg gacatctctc accccaacctt ttaggtgga gcaactgcta cagaggtaaa 720  
tatgattaac ttacattcc atcttcgtc tgctccaaa cttAACAGCA ggtaatctgc 780  
ttctagcaag tggtaaggt aagagaagca tctgtatagg aggcaagaga tctgagtcct 840  
tttgaaggcc tattcctctgc tctgtatctc aattactgtt cttcatttga attattctta 900  
cctactattc agttcccttg atctttctt cttgggggct gtcttagggt cagggagatt 960  
gcagaagcac cagaactagg agcagccctg agacatgggg agttggagct gaaggagggaa 1020  
tggcaggatg aagaattccc taggtgagga cgtgtgaggg tggctggag aagggaggggg 1080  
tggtcacgaa tggacggagg ggat 1104

<210> 36  
<211> 1020  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (444) .. (485)  
<223> a, c, g or t

<400> 36  
tcagattcat caagtgagaa taaagttcgc ctcactgttc atgccccatc taagcttaaa 60  
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ggggcagttt acagatgaaa ataacctctc caaagtgcgc tgaagaggtt caacctaaag 180  
tggctggAAC tttgcttata aaataatata ttacatttgg ttactaaaaac actaggttcc 240  
ctttaattga agaatcccag tttgagttt tctcaagtac agtggatTC aaaggatagt 300  
ggtagctagt agtatttagtg aaaatagtca taactagcat ttattgaata ttatttgcca 360  
aaacgtgcct aacaatttta catgtattat ctcatttaac cagcacaagc aaccctatga 420  
gaggtgaatt attgttatcc aaannnnnnn nnnnnnnnnn nnnnnnnnnn 480  
nnnnnnntttt agtattacac agaagatctg ggactcaaaa ttaacaggctt attatcaaga 540  
acatttatga agggaccaca ttatatatga cagcgttgg tgcactgtt attttgcatt 600  
atacggagtt gaatttagtcc ctggcttcaa ggactttctt ttctctttt tcccttctat 660  
tctgttcaca ctttcttctt agatactgga actataagcc caaaactact taacatgaaa 720  
gacttttaggt acacgattcc ccactggcag ctgcattttaat ggtgaaggat ttcttgagta 780  
ctagcagaaa acataatata taaagagagt tgcgtgcttag acaaattggac taagaaacca 840  
tgatttcttgg gggttttgtt cttgcttattt tcaagctaaa atgcaccctt gggattgcag 900  
atggtcataa gaaaaattt caagtgaaaa gttaaaccact gccaactca tatgattgaa 960  
aattggccat ttttatgtttt agaatatttt ttgtgcattt gcaattaaga ataaaaagtc 1020

<210> 37  
<211> 1347  
<212> DNA  
<213> Homo sapiens

<400> 37  
tcagattcat caagtgagaa taaagttcgc ctcactgttc atgccccatc taagcttaaa 60  
aatgcctatg tgctccctg tagcctcact gcgtgctgtt gtgcactgca ccctctaattg 120

ggggcagttt acagatgaaa ataacctctc caaagtgcgc tgaaggaggct caacctaag 180  
tggctggAAC tttgcttata aaataatata ttacatttg ttactaaaaac actaggttc 240  
cttaattga agaatcccAG tttgagtGTT tctcaagtac agtgagttc aaaggatagt 300  
ggtagctagt agtatttagtG aaaatagtca taactagcat ttattgaata ttatttgcca 360  
aaacgtgcct aacaattttA catgtattat ctcatttaac cagcacaAGC aaccctatga 420  
gaggtgaatt attgttatcc aaatttAAAG atgagggAAA tgaagctcAG aaatgtgaaa 480  
tgacctttt agtattacac ggaagatctG ggactcaAAA ttaacaggtt attatcaaga 540  
acatttatga agggaccaca ttatatatga cagcgTTGA tgcagttGA attttgcAtG 600  
atacggagtt gaatttagtcc ctggcttcaa ggactttcct ttctcttttA tcccttctat 660  
tctgttcaca ctttcttct agatactgGA actataAGCC caaaactact taacatgaaa 720  
gacttttaggt acacgattcc ccactggcAG ctgcttAAT ggtgaaggat ttcttgAGtA 780  
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<212> DNA  
<213> Homo sapiens

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aaagttacct gcctaaaaaaaa a 141

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<212> DNA  
<213> Homo sapiens

<400> 39  
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tctgtttttt gatatgttcc ctgagtggtc agtgttctc cccaggattc cctgactccA 420  
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ccccaaaggct ctttacattt ctaagccctc acctaggcac cacggtaag ccagcagact 540  
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caaggtataa tgttagaaaa ttaaccagca aacaacccca ggatgcggcc atacgaaaga 720  
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<212> DNA  
<213> Homo sapiens

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<222> (463)  
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<220>  
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<222> (465)  
<223> a, c, g or t

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gtcaaaaatg ttgcaaaatc atagcagtaa gaacaatagc aaccatcatt catgggaccc 180  
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ttcccaagg ccaaatacgta ttacagtagt taacctttt ttttgtgtt tatttaaagt 360  
catcatcaaa acatattcta atgagcattt attgttgtaa agctcttta gccaggtaaag 420  
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<212> DNA  
<213> Homo sapiens

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cattttact gtttgaatt caacatttgc tccagttatga atcaaatctt gaccaatatc 420  
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gccatgagag acccgctcaa ttaaaaaaaaaa aaataaacaa aacatcaaag tactgcttta 540  
aaaggatagc cctgaactt cctggctaaa agagcttac aacaataaat gctcattaga 600  
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tcaaattata ttaaccgtct gacagggttg tcgtaaaact gaatgaaaaa atgccaaga 780  
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acgggattaa aactaaggag aaactaagtt tttctacctc aaacttcagc tcttcaaagg 960  
catatgtggg acctcg 976

<210> 42  
<211> 194  
<212> DNA  
<213> Homo sapiens

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caacttgttt tgtttgctt tgctttttt cttAACCAA tcaatctttt attgatagat 120  
tttgtgtaaa aagatataata ctagtttctt cagaaagatt aacaataaaa attgtgttta 180  
tttcaaaaac ataa 194

<210> 43  
<211> 378  
<212> DNA  
<213> Homo sapiens

<400> 43  
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tatataatata tatataatata tatataatata tacaggctct gctgaattga 180  
aatgggtaaa tcaaattcacc attctaaaaa atttattactt atattgataa agcctggatt 240  
ctctcaactt gttttgttt gctttgctt ttttctttaa ccaatcaatc tcttattgtat 300  
agattttgtg taaaaagata tatacttagtt tcttcagaaa gattaacaat aaaaattgtg 360  
tttatttcaa aaacataaa 378

<210> 44  
<211> 662  
<212> DNA  
<213> Homo sapiens

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ccggccccctt tgcacagtga aaacgtaagt atgataagtc ccagtatgtg gaagaactag 180  
aagaaccacag gagttgtat cctaaacaac tttaactgg gccttgtat gattccacg 240

tgtgatactt tactcattct gagattaaca gtcgcactgg taaaaactgac agccgcata 300  
tggccatact aatgttaactt attacaagac aggaagttag aagagttgtt tgatcttagtt 360  
gaaaccatgg gggaaatttg 360  
gaaaggcagag taaatttgct aatttggaaag tctgagactt 420  
cagagcttgtt tattcttgc 420  
gcagttgtta aaagtca 480  
gacatcctga ttctcaggc 480  
tccgatgtgg atgtgcattc 540  
tctccggcag catgatttt ccaggaccag aatgtgacag 540  
gagcggcccc gcaatagaat tgcaggctca caggccggct gcagcaactt 600  
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<210> 45  
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<212> DNA  
<213> Homo sapiens
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acagcaccgg ccctggattc acacagagga actttctccc aaaagaacca atcaacttct 180  
aactgttgtg gtatattgc taactcaa at gagaagcgag ggcctttgg tttacttct 240  
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cacgtgtgat acttactca ttctgagatt aacagtcgca ctgggtaaac tgacagccgc 660  
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agtgtt 1026

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<210> 46  
<211> 112  
<212> DNA  
<213> Homo sapiens
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<400> 46  
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tccatataaa caatagttt atatgaagaa gtgtcatttt gtttttcatt tc 112

<210> 47  
<211> 249

<212> DNA

<213> Homo sapiens

<400> 47

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gatttatgtg tttatgtgggg tggcggtgg gcagcttaga gtaattttaa ttataaaaaaa 180  
ttaaaattac ttagagtaat tttaattata aaaaattata aaatttttag ttttataaag 240  
actagtgtt 249

<210> 48

<211> 768

<212> DNA

<213> Homo sapiens

<400> 48

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<210> 49

<211> 2901

<212> DNA

<213> Homo sapiens

<400> 49

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<211> 297  
<212> DNA  
<213> Homo sapiens

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catattaaca tatctagtga ttaatgaact gtagaaggac aagatggaga tcagtttat 240  
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<210> 51  
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<212> DNA  
<213> Homo sapiens

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<223> a, c, g or t

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<222> (869)  
<223> a, c, g or t

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<222> (894)  
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cgnanataca aaataaaaaa accaaaaant aattaataat ggagacttta tgtnacacaa 900  
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ttattagatc cacaatggacttgcct 987

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<211> 293  
<212> DNA  
<213> Homo sapiens

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atgtttaactt ttcttatttt taccttaaat atgtaacact ggtttgcacca aactctcaga 240  
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<210> 53  
<211> 652  
<212> DNA  
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<210> 54  
<211> 1300  
<212> DNA  
<213> Homo sapiens

<400> 54  
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gagaaaatgg ggtaaatatt tcttgcgaa gagaaatcaa atatgggtga atcattgact 240  
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gttagtgact tgactgaagc tcagttgca catctgtgaa gaggacagta atttctggtc 360  
tcatagggct gttaagagca tggaaatggaa tccaaattcg 360  
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tctggtctca aggatctcat aaacctactg gacagatatt atgtattttg gttcctaca 540  
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gctaagttagt tagttgaaag cgttagtaagg tcagaagtca ccgtcaacctt ccgttaaattc 780  
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ggaaatgaaa tgtctgcagc agatagaagt gtgtaaat 1300

<210> 55  
<211> 2890  
<212> DNA  
<213> Homo sapiens

<400> 55  
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<210> 56  
<211> 581  
<212> DNA  
<213> Homo sapiens
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tcatgagtga tgggagagat ctgggcaggc aacctccctt catcctgcat catcagcctg 180
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agcctttctg ccagcacttg gcattccagc tgacctcgac ccaaggcctc tgtgacttca 300
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catcctaccc cccgccaacc ccccgcccc ggggtttcca gagcaaccaa caccaccaag 420
ctccaggaca ctggaaaaaaa aatctttgca aagaagcaag gggccatctc agaaaatcca 480
ggtcccccaa attgatgtag ggagaggagg gctttgacag cattcagcac tccagagggt 540
cacgaggata cagaaaccat ttggagccac ctctgctct c 581
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<210> 57  
<211> 833  
<212> DNA  
<213> Homo sapiens

<400> 57  
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tcatgagtga tgggagagat ctgggcaggc aacccctct catcctgcac catcagcctg 180  
gacttggAAC ttggctgctt ttctttctg cagttAGCGG agggcTTGG ccaacacata 240  
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ggaggcggca gctgggaagg gtcagggcag ttccaggcag agcacagacg tcagctcaga 360  
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ggTCcccAA attgtatgtAG ggagaggagg gctttgacAG cattcagcac tccagaggGT 540  
cacgaggata cagaaaccat ttggagccac ctctgcttct cagccccacc caggcaAGCC 600  
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gagtcaatca caccctaaaa tgcagagccc atagtattgg tgagttttc atgtgtctct 720  
gaagcaaatt tagggctgtg gttcaaacat cgtaaaagtt aaaaaaaaaatt cactggatac 780  
acacagtagg ctctttaaa ttgcctcat ttgaacttaa ttacatatTTT aaa 833

<210> 58  
<211> 473  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (283)..(372)  
<223> a, c, g or t

<400> 58  
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ttcattttga ttctgttcaa tatactttct gattccctc ttgattttctt tttgggtcctg 180  
gaatgtgcta tttagtttat gtatatttag ggatattca gagatgttca tgtgactgtt 240  
acctatTTTA attctcatat ggtcaaagaa tatactttgt atgnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nntgtgtgtt ctgccattgt tgactgaaga gttataaaat atcagctagg 420  
tcaagtaagt catttgagtt ttcaagtctt ttatatcctt agtgattttt cta 473

<210> 59  
<211> 538  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (355)..(360)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (380)..(382)  
<223> a, c, g or t

<400> 59  
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cctggaatgt gctatttagt ttatgtatat ttagggatat ttcagagatg tttctgtgac 300  
tgttacctat tttaattctc atatggtcaa agaatatact ttgtatgaat aacatnnnnn 360  
aaaaaattggt tcaagattgn nntatgaccc agaatgtggt atgtcttggt aaatgttcag 420  
tgtctbcttc aaaaaatgtg tgttctgcca ttgttgactg aagagttata aaatatcagc 480  
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<210> 60  
<211> 468  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (371)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (378)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (396)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (398)  
<223> a, c, g or t

<220>

<221> unsure  
<222> (465)  
<223> a, c, g or t

<400> 60  
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tgtgagcata tatttgtatt tgaatacaga tacctctga acaagatatg aaaggagtt 180  
tgaggctcc ttcatacagc ctgtcatcat tttggacaag gaaaatgtt ccagcctgat 240  
ttcagacagt tataccaaac catctggccc cttaactcaa gtgccttctt cctctatatg 300  
tagacttgag tccggggcat aaatggaggt caagtaatag actcatcaag ggaagaactt 360  
tacttcctat ngtgtatnac agtgaardta taagangnat tcaccataat gtgtataatg 420  
gcattattca tgtttgaat tgtgactgat gactttgcta taccnnggg 468

<210> 61  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 61  
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gcataatgaaa aatacttagt tcattgttaag caatcaatca gtgttaccta ttgtttcac 120  
ttttagccct ctagataaat attaagagag ggtttgctca tggttttgtt atttaattt 180  
catttcaagc catacacatt taacataaca ctgtacattt taaaagataa attttcattt 240  
tttctcctct gaaaatgcat tgtaaattt tgctagctt catttgaata ttagtcatct 300  
gaatccatat cagatttcat gttcttgtaa ctatttaatg tccatttaat cactgagttg 360  
tatagattga 370

<210> 62  
<211> 417  
<212> DNA  
<213> Homo sapiens

<400> 62  
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aataaaacttg ttttcttgtt accaatctcg ttgtccatgt tcttctgcta aacattacat 120  
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actgttagat ttacatatg ttatgttaat ttgtgaatt accagtcttc tgacttcaac 240  
acaaatagca aattgcaaaag tgttacttgg ggttcttggg atgggttggg aagtcattct 300  
gacaatctca gaagttctaa agaacttagtt ttatcttaac tatcactaat ttgcaaagta 360  
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<210> 63  
<211> 1328  
<212> DNA

<213> Homo sapiens

<400> 63

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gaaggccagg cgccaggacc gggggaaagg tgggtccccccc aaaagcgggc gccgggtgaac 1260  
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<210> 64

<211> 274

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (19)

<223> a, c, g or t

<220>

<221> unsure

<222> (22)

<223> a, c, g or t

<220>

<221> unsure

<222> (45)

<223> a, c, g or t

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aaacttgtat cttcacgtag catatgagca atggaaaaat catttttggga atgaggtggg 180  
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cttttctcc attggattt atttacccta gagt 274

<210> 65  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 65  
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tatatatgct aaagtacttt gtaattataa agcattaaac agctaaaagg aataataaat 180  
tctgttcaga gcacagattt gcaagcttt tctgcagaga tctagaaaaat aaataacttta 240  
ggtttgcag gccaaaggc aaaa 264

<210> 66  
<211> 1031  
<212> DNA  
<213> Homo sapiens

<400> 66  
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<210> 67

<211> 537  
<212> DNA  
<213> Homo sapiens

<400> 67  
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<210> 68  
<211> 1645  
<212> DNA  
<213> Homo sapiens

<400> 68  
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<210> 69  
<211> 164  
<212> DNA  
<213> Homo sapiens

<400> 69  
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<210> 70  
<211> 1490  
<212> DNA  
<213> Homo sapiens

<400> 70  
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<210> 71  
<211> 225  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (22)  
<223> a, c, g or t

<400> 71  
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tcttgtgtca ttcactctgg ggaaagtcag ctgacactcg tgaggatgct caagtggcct 180  
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<210> 72  
<211> 519  
<212> DNA  
<213> Homo sapiens

<400> 72  
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<210> 73  
<211> 1315  
<212> DNA  
<213> Homo sapiens

<400> 73  
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<210> 74  
<211> 435  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (324)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (355)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (370)..(371)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (385)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (393)  
<223> a, c, g or t

<220>  
<221> unsure

<222> (395) .. (396)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (399)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (408)  
<223> a, c, g or t

<220>  
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<222> (424)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (427)  
<223> a, c, g or t

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tgttatcatc atgatggat attntctata attatgttt ttacaattac cttgntgatt 360  
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gtanaanccc actt 435

<210> 75  
<211> 704  
<212> DNA  
<213> Homo sapiens

<400> 75  
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atagcaactc ttactcaaat ttggtaaaac aaacagataa tgagtaaatt gctcttgaag 180  
gagtacagcc tctaagactc attgggtcag tgacttcaga aacatcaactg aggactcagt 240  
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cctaagtggc cacaagatgt ctactagcca caaatggaat aagaggtcc cttgtccatg 360  
tgcaccagga gacagaaaacc tcttcacagc cttcaatac atattgtccc ttctttgat 420  
ctgaatagtg gccacttaca tcatgaaggc cagtaaccat actcaatgcc cgcaactgata 480

gggcatacat ccggacagga tccacctcta gggctgggta tggcttagct ccagctatgc 540  
catatgacta tgtgtagaag aaaaaaaagga aagtggttac cttggggaga agtagaggaa 600  
caaatgctgg gtaagaaaact aatagcacca ttaaaatggg gccattgtac ttcattgtgt 660  
tattctttt attctctaaa taaaacaaat tctaatata aaaa 704

<210> 76  
<211> 539  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (527)  
<223> a, c, g or t

<400> 76  
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aatttttat ttttatttta ttgggttaaa agcggtgtc tgatcagtga cagaagtgac 180  
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tgcaaggaga cctcagaaat gacttgcaga agagaatttt gaaaaaaaaa tttaattggc 420  
tcgaacacaa tagaaagcca gtcattaatt gtaataactc tctagtgtt atactctaag 480  
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<210> 77  
<211> 592  
<212> DNA  
<213> Homo sapiens

<400> 77  
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catcagtggc tccttgggtg cctcgcaggc ctccctgatct ggcagagtct tgatttagga 360  
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acaggaggtg gctggctgtt gcaataatcg gaaaaatgac agtggctcg 540  
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<210> 78  
<211> 603

<212> DNA

<213> Homo sapiens

<400> 78

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agagaggcca aaaaaaaagggt gccaggcagc tcacggacag aggtgctcgt gccacacaga 180  
atttcagtt ctgggaattt ttgtcaccaa aattgctgag gactcggca gctacgtcgt 240  
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gagcagagtg gtgggtgggg aggagagggg tggcattgt tatctcgaat gaaaacagtc 600  
tgt 603

<210> 79

<211> 133

<212> DNA

<213> Homo sapiens

<400> 79

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ctttgtacat atcagaatgt tctgataaaa cttaactttt attaaagtgt ttgtgatata 120  
agcataaaaaa aaa 133

<210> 80

<211> 349

<212> DNA

<213> Homo sapiens

<400> 80

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aagttaagtt ttatcagaac attctgatat gtacaaagtt aaatatggct gaaaaatgat 180  
aaccaggtcc aaattaaaat aacccaaacaa aggaaacttt tttttttta agacacaagg 240  
tctcattctg ttgccttaggc tggagtgcag tggcatgact acagctcact gtgaccta 300  
actcctggc tcaaacaatc ctctgcctc agccccctga gcagcagct 349

<210> 81

<211> 959

<212> DNA

<213> Homo sapiens

<220>

<221> unsure  
<222> (496)  
<223> a, c, g or t

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<220>
<221> unsure
<222> (498)..(551)
<223> a, c, g or t
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<210> 82  
<211> 457  
<212> DNA  
<213> Homo sapiens
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<220>  
<221> unsure  
<222> (4)  
<223> a, c, q or t

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tctgcagtca ttatTTatac atggcttgaa gatttgcaag atcgtaattt tttaaaaata 360
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gtgtacaaaa aggatattaa aaactacctg tggattt 457
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<210> 83  
<211> 844  
<212> DNA  
<213> Homo sapiens

<400> 83  
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<210> 84  
<211> 3180  
<212> DNA  
<213> Homo sapiens

<400> 84  
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<212> DNA  
<213> Homo sapiens

<400> 85  
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tgagagttca ctgattttaa aaaccaaata ctgtaatagg acacagaatt taataagaat 780  
attatctctt tggagcatga tttttgtgt catgttataat acagtagaaa ggtcaaatga 840  
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<210> 86  
<211> 523  
<212> DNA  
<213> Homo sapiens

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<221> unsure  
<222> (257)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (270)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (272)  
<223> a, c, g or t

<400> 86  
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gaaagagggg agcctgggga ggctggttt caaacttcaa aaactccacc aaccacaccc 180  
aagctctagt ccctgttagta gtaacaatat tactggctt ctgtgcgtca agacattttt 240  
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taacctctta agaatacataa ttccaaattt tatttcttta gtcagttac agtagaaagaa 480  
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<210> 87  
<211> 390

<212> DNA  
<213> Homo sapiens

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<222> (122)..(251)  
<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

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<222> (365)  
<223> a, c, g or t

<220>  
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<222> (381)  
<223> a, c, g or t

<400> 87  
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nnnnnnnnnn ntcacttctt tacctcagg ttctcccttt caaaatggag ataatgccta 300  
ccttacaaat tgatggtgag aattaaatga ggnnatgngt gcnaaaaangt gtgtgtatgc 360  
ctgganacctc tttggcatgc nactttgtgt 390

<210> 88  
<211> 900  
<212> DNA  
<213> Homo sapiens

<400> 88  
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ttaaaaata cttctagaga gattctgaaa tcttaattt gttgcactt ctgtaatat 180  
atttttgaa aactattttg atatttctt catataacat tattggatct gtatcactaa 240  
gttaattgtc taaaaggtaa ctgatttcat caaaccttcc agtattaata attttaagc 300  
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gaaatgatca gattttaaa aaatggattt ctcatataaa taatattatc aaaaaaggat 420  
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gtaatgtgaa aaataacaca gtcatgtat attcttatt aactaaaact gtgtgtttt 600  
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gtatgtatatt cagattaatt ttgaggcttg gtattcctaa aagatttggaa tgtgtgtatt 720  
tctttaactt gacgtaaaca tgtatcacaa acatatctt taattccat taaagggggtg 780  
cttggcaca tgctgaaatc tgggattttt tttttgact ttgataaatt tatcaaaaag 840  
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<210> 89  
<211> 1173  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (1030)..(1053)  
<223> a, c, g or t

<400> 89  
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cacttaagta ctctaaacca ctatttaaa aatacttcta gagagattct gaaatcttaa 180  
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acattattgg atctgtatca ctaagttat tgtctaaaag gtaactgatt tcatcaaacc 300  
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taaataataat tatcaaaaaa ggatttctca tataaataat attatcaaaa aagctgattt 480  
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<210> 90  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 90  
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tttgcatttcc atccatattt ctcagttat taatagtttct tatttctgag tcactccatt 180  
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<210> 91  
<211> 2518  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (2502)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (2508)  
<223> a, c, g or t

<400> 91  
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tgggcgcctg taatccccc tactcaggag gctgaggcag gagaatcaact tgaacctggg 360  
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<210> 92  
<211> 611  
<212> DNA  
<213> Homo sapiens

<400> 92  
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aattacccat g

611

<210> 93  
<211> 568  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (60)..(116)  
<223> a, c, q or t

<220>  
<221> unsure  
<222> (435)  
<223> a, c, q or t

<220>  
<221> unsure  
<222> (442)..(509)  
<223> a, c, q or t

<220>  
<221> unsure  
<222> (538)  
<223> a, c, q or t

<220>  
<221> unsure  
<222> (561)  
<223> a, c, g or t

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gcagctaagg gtctaatcta ataacaacag atgcatacgatg aatgctcagt aaatgtgaa 180
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tatgttattat acatttagaca ttgagctgga tgttttcct atatcagaac atttaacata 420
cacaaaaatc cttgngcatg gnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 480
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atccaaagcc tatattatttc naaaaaga 568
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<210> 94  
<211> 631

<212> DNA

<213> Homo sapiens

<400> 94

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ccgagcctgc caaggttgc a cattgtttt ttatttgagg gcgagttgg acggcaagac 180  
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acccacgccc ggc当地 agtcaacaagca ttgggtgaca agtgaatagt ggc当地tga 360  
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tcacagccat aacttacaat tattgcatac ttacgacgag tcccgactg ggctaagtgt 600  
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<210> 95

<211> 1123

<212> DNA

<213> Homo sapiens

<400> 95

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ccccgcccag ctgtgggtgt gcatggggag cggtacgagg gagggtaaaa tgggcccctt 180  
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<210> 96

<211> 516

<212> DNA

<213> Homo sapiens

<400> 96  
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<210> 97  
<211> 1373  
<212> DNA  
<213> Homo sapiens

<400> 97  
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<210> 98  
<211> 632  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (496)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (595)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (601)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (623)  
<223> a, c, g or t

<400> 98  
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tttttagata gcttttatg tggcttgaa gtataaagat gtaaaaaaaaat agttgaagg 180  
taatttttc tttaaggtga ctaatttaac ttggaaatga taaaatctcaa gggcaatgaa 240  
tatattggga gtgggatctg aatgtatcag aagattcaac aaagcagttt ggggtataaa 300  
tataaaaagc aagggtttta ttcttatttt aagaagtgtaa aatacacactc ctactctaag 360  
gtaatgtcaa attagctata actattaaat gcaggtttgt ttcatttata tgttatattt 420  
tagtgactta aaggatgaca gaggaggcag aagaagatga accagacttg ggatctatcc 480  
tggacacata tttganttat atagctactt aatttaaaaa aatttcttaa aatttatagt 540  
cattcctaattt ctttagattga tatgaaaact gttgtttca ctcacagtgg ttccncatat 600  
natcacaata cagttaacca ttnctggat at 632

<210> 99  
<211> 1142  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (929)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (934)

<223> a, c, g or t

<220>

<221> unsure

<222> (968)

<223> a, c, g or t

<400> 99

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atgggaggggg agccaggtct gaatctccca tcttgaaca ccaggaatag tacttttat 180  
ttgtctatgg aaagaggttg tccttgcttc tctgtgtgga tgagcaacat atagttgcta 240  
tgaatttcta ttttggacct gaatttccac caagttcaat ttttagaaat atgcattact 300  
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agtagaatac acatataaaag caactcaaac tttagaaactg accaataaaaa gagacactat 420  
ttatTTTCTT tttttttcc agaacatttc aaaaacttcc catactgttt ttctgttagc 480  
ttaagcgttt ttaaatcctt cacttcaca cctactgtca agaaccaaaa tttggctgaa 540  
gcagcttaag tgattcagtt cacgtcaaac aacatttcac aggattcttccccaaagc 600  
aactcttac tatccagtac ataagactct agaacattaa aattcttata atagtgccat 660  
gtggcatcta aaataacttt ggcttaggaaa taaaacatat ttgcagaaaag tttggggttt 720  
aaatcaaaga atggatcaaa gtggcccttc atttggctcc acgtcatctc acaatagtga 780  
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taatgatgga gcacctgtat ttgactagat gttatataca tgccattgaa agacatagta 1080  
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aa 1142

<210> 100

<211> 229

<212> DNA

<213> Homo sapiens

<400> 100

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aaatTTTAC tttccatctt aatgtaacct tatgttatttgc tttatTTTA ctgtatatttgc 180  
ctttacaat aaatataaaa tgaaatgttt atgttgacat ttcagtgtg 229

<210> 101

<211> 1382

<212> DNA

<213> Homo sapiens

<400> 101

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tgcgtgagga actaaggaag gcctactaga ctatttatg ggaagaactg gatttgtgg 120  
taaccagagt cctaagatgt gcaaggtcag tgtgtgaact atgctggagt gtgatgtgaa 180  
gcagagatca agaaaattagt acaacagaga tggtttactg ttgtacttcc catcagtgaa 240  
ggatgggaaa gggcttttat tacataccag acactatgt tacatctcat ttttgtacct 300  
tatgaaatat ctatgtctac tttatgcatg aagaaaactga tgttcatcaa gtttagtag 360  
cctatccagc actacagtgc tagtaattga gtaagccag tgacttgca agctaggatt 420  
aaaacctata tattaggccg ggattacagg cgtgagccac cacactcagc cagaaaatcg 480  
tttttaagggg ttcttttaga ctatatccag aaaaagttag 600  
gacagagtct tgctctgtta cccaggctgg agttagtgg tgccatctca gctcaactgca 660  
acctccaccc cccgggttca agcaattctc ctgcctcagc ctcctgagta gctggcactg 720  
taggcattgtt ccaccatgcc cagctaattt ttatatttt agtagagatg gggtttgcc 780  
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caaagtgtcg ggattacagg tgtgagccac cacactggc caatgcttaa tattttatg 900  
tatctcaaca ataaaaccaa gaagaaacaa agcctttga cttgttagaa tgtattaagt 960  
agtattttaa agaaaactta tagttgtgac attgaaagac tggtgggtg gggggaggaa 1020  
aatttttact ttccatctta atgtaaccctt atgctattct gtattttac tgtatattgc 1080  
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggggggg gggcaaaaaa tatctcccga 1200  
gataaaacga aggacggcg gccggggaca aaagcgctgt cggcgaaac cgcgcctgg 1260  
gaactggggg agggacccac ttggcgcccc accccggcac acccccaaaa gatagagccg 1320  
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ca 1382

<210> 102  
<211> 816  
<212> DNA  
<213> Homo sapiens

<400> 102  
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tgcattctta acaatataac aataacatag cttaagcact tatcaagtta tatggtagat 180  
taccattatg aatacattga aataatattaa atttatgtt tggcaggctg gataaacacc 240  
ctactaattt tctaaatttg taagtagaaac tcttcatttt ttgttacact tttgttgaag 300  
ttaaatacgat ttttatcac aaaatttaag ttcataatgt ttcatgcctc tgaccaaattg 360  
aatcttaatc attcagttt gatacagtg aagaggaagt attggcatga ataatcaaaa 420  
aacaaaaaaac atgcttgta ataccttaaa ttatccacat gatcatctg gataatcatt 480  
taaccctttt ccatactgcc cagctttatt ccaggaacca cctccagcta taaaaaaagg 540  
tttcagaaat tcagagttat ttttattcag gcaagaagt accaagtatt gtgacttagtt 600  
agataagggg tggggggaaag acagtagatg gtggatcatt aggcattta taagaataaa 660  
actagttta tagtgcctca ttttactta cccattcaca tattttgctt acatttcgtt 720  
gcatcattta ataatttaca aagaaagtgg tattacattt ttttagatgg gtacatacag 780  
gttagctagg ttttagttaa agtgacccctt gtaatg 816

<210> 103  
<211> 980  
<212> DNA  
<213> Homo sapiens

<400> 103  
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tctcaacttc tagcaa atgg atatttacag agcattata gctctggaac tagaa gataac 120  
tgcattctta acaatataac aataacatag cttaa gact tatcaaggta tatggtagat 180  
taccattatg aatacattga aataatattaa atttagttt tggcaggctg gataaacacc 240  
ctactaattt tctaaat ttg taagtagaa ac tttcatatt ttgttacact tttgttgaag 300  
ttaa attagct ttttatcac aaaat ttaag ttcataa atg ttcatgc tcc tgagcaatg 360  
aatcttaatc attcagttt g tatacagtg aagaggaatg attggcatga ataatcaaaa 420  
aaca aaaaac atgctt gta atacctt aaaa ttatccacat gtatcatctg gataatcatt 480  
taacccttt ccatactg c cagcttatt ccaggaacca cctccagcta ttaaaaaagg 540  
tttcagaaat tcagagttt ttttattcag gcaaaagaatg accaagtatt gtgactagtt 600  
agataagggg tgggggaaag acagtagatg gtggatcatt aggcatatta taagaataaaa 660  
actagtttta tagtgcctca ttttactta cccattcaca tattttgctt acatttcgta 720  
gcatcattta ataatttaca aagaaatgtg tattacattt ttttagattt gtacatacag 780  
gttagctagg tttttagtaa agtgcacctt gtaatgttt agaaggc aa gggaaattat 840  
gaccctggt taggaaaaaaa aaaaaatgc tgcaagttt agaacaactaa gattagccac 900  
agtgat tttt aagaaaatgt gccttattt aatgaa ttttggattt cccctacttt 960  
ttttggttt tggtttattt 980

<210> 104  
<211> 426  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (83)  
<223> a, c, g or t

<400> 104  
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ccgg tctgca gca gca ggtg acagcagcag ggacaatgat aaggagattt gctgaa ggg 180  
gggaccgtcc ctcccgcg g tggatggc gggagcgg gtcggctgtg ccggcgagca 240  
gctt gatca ggg tcccg g g g a g c t c c t g t g g a g c g g c c c g a a g c c t 300  
cgggagccag cttcactaga caagaggcag aggttagagaa tgcggctgtg gtgcgtaa gtttggatgg 360  
gagtca tgc gaggcagt ct tttcaaa aggtggtt tttgttggac ggattt gatgg 420  
tggaa 426

<210> 105  
<211> 816

<212> DNA

<213> Homo sapiens

<400> 105

gagaggcaat gcaaacaaca agaaaaacat gaaacagaat atgaatgaaa aaaagataat 60  
gttgagaaaa aagcaacctt tttaatgct taatattggc attttagtatt ctttagagagt 120  
tagttaaagg tccatgaaag aacaagatgt tatgaaaaag ggacagaaca agcaagtctc 180  
cttggaaatt aaaaatttga gcacccaaat gaaaaattca ataaagtata agataaagt 240  
taaggaagta ggataaaaag acaaaaatag aaaataggag tgaaagataa gaaaatttga 300  
agctaaatca aggatgtcca attttgaca ataagagttc cagaaagaaa ggacagagaa 360  
agggaaatg gaacttcca agaacgaaat gacgcaatct ccagattgaa agggataat 420  
ggattaagat tcacttcaa acatatcata ccctagaagc ttctggaaag agaaaaaaagt 480  
aagccaaata tgtaaagtat cagaaatgga aagtcttc tctagcaaca ctgaaagcta 540  
aaagactgtg aagaaaggcc ttcagaattc tgagaaaaa tgctttgga aatagaactc 600  
tataaactaa agactcatat cagggctca aaaaatgtac ttctcatggt tatgctccag 660  
caaaggacac tgataagaaa gaggaagtc tagatggagg aaacaggaa cctactatgg 720  
aagagacaga gagatgtccc aggagaagag aaattcatct ggcctatggg acagccagtt 780  
gttattacag cagaaggatg cagtgtctg gatggaa 816

<210> 106

<211> 884

<212> DNA

<213> Homo sapiens

<400> 106

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gttgagaaaa aagcaacctt tttaatgct taatattggc attttagtatt ctttagagagt 120  
tagttaaagg tccatgaaag aacaagatgt tatgaaaaag ggacagaaca agcaagtctc 180  
cttggaaatt aaaaatttga gcacccaaat gaaaaattca ataaagtata agataaagt 240  
taaggaagta ggataaaaag acaaaaatag aaaataggag tgaaagataa gaaaatttga 300  
agctaaatca aggatgtcca attttgaca ataagagttc cagaaagaaa ggacagagaa 360  
agggaaatg gaacttcca agaacgaaat gacgcaatct ccagattgaa agggataat 420  
ggattaagat tcacttcaa acatatcata ccctagaagc ttctggaaag agaaaaaaagt 480  
aagccaaata tgtaaagtat cagaaatgga aagtcttc tctagcaaca ctgaaagcta 540  
aaagactgtg aagaaaggcc ttcagaattc tgagaaaaa tgctttgga aatagaactc 600  
tataaactaa agactcatac agggctca aaaaatgtact tctcatggtt atgctccagc 660  
aaaggaaact gataagaaag aggaagtc agatggagga aacaggaaac ctactatgg 720  
agagacagag agatgtccc ggagaagaga aattcatctg gcctatggaa cagccagtt 780  
gttattacag agaaggatgc agtgcgtctgg atggaaagtt ttccaggaag aaataaaaat 840  
gagtcagaca agtagcctga aaatgttggaa agatttggc caga 884

<210> 107

<211> 1232

<212> DNA

<213> Homo sapiens

<400> 107  
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gggagatgt aatttccagg aaatttactc aggcaaaatg gtcttgca gcttaagagc 120  
agccctctga ctgacactgg cattggctgt gggggtaaa gcacaccagg agccatgtgc 180  
gtaaaaaggt taatgaattc cagtagctat gggtggagtg ctgatattcat gtgtacactg 240  
tatattgact tattaaattt ctccctttca gccatgtgag catattgtat ataaaggcac 300  
agtttctt gaaggcctt tgggtggact gagtcAACCC agtgtgcac atgttatagt 360  
cagtgccacg tagagcagta tctgactcat cctactgtt ccattataca ccataaatac 420  
ctctccactg aggctaattt taagctctgt ggaatttagtt tgatcagaaa cctgaatcaa 480  
gcaaagaatt tcataagtgg gaaccattcc tgctagacta gacttactga ttttgc 540  
actctaattga cagaaaatca atgtgtttt gctgtgttt tctaattttt aatctat 600  
tggtgaccc gctgtgccc atttaccatt cattcattca aaaagtgtt actgagtgc 660  
tatatatgtg cccagcgctt tgcttgtaa taggtataact ataggtagac ataaagttaga 720  
gatggttgct gtattaatgg aacttccagt ctgtatagg gagaaagaca agaaaatttagt 780  
tacagttcat aggagctagg attgtctgaa aatagcctt aattctctac tctaggtttc 840  
ctggactgtg agatacgggg gagttctt ctatgtcatg ggaggggctg tgctcaatc 900  
ttatgagttac tggtgccctt gtcttccctt gcttagtagt gtattcaac tttgcttagga 960  
aagctggcat tcttaaactt actccagtaa gcagcctgct gggctgtcaa agtcagactg 1020  
cctggcacca agtgtattcc tccaatgtta aggctgtata tacagggaga atagcagaga 1080  
ggccattgtc tctctaacta gaagcaaattt cccatagttat tggttcttggaggagaa 1140  
tgagataccca atatctttt ttctctcaact aaccgtggca ttttactcct aacgtttct 1200  
cttccccaa taaagtatat ctttttaacc cc 1232

<210> 108  
<211> 870  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (443)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (532)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (534)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (544)  
<223> a, c, g or t

<400> 108  
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tcacttttc tttataatat ttttctaact ctgtcttta agttcctatt acctttagga 120  
gtcctccagg aaaaaaatat gaaaccttat tttcatgaaa gcctttttg tttcacaatt 180  
tgccatttgt tattaaagcc cctctactga agagctacaa acccatttcc tcctactatt 240  
tcatccttcc tattctgttt cttaaatgtc ttctgtgcct taaaatgtctt ctgtgcattcc 300  
tatggaaagaa gaaccctcct aattcagaat tcacagcatg gagagagaag ttatggctt 360  
atttcattca ttaataacta gagccaccaa cataccacat cctatataat gttgtcatta 420  
tttacaaaat gcaaggaaaa atngattata gtgaagtggc ctcattcata gcaacactat 480  
atatgc当地 attcagtga cttgaatgg tacacaaaca gtttgggtt tntncaatgt 540  
taangtcatg ttttggaa atgttgcatt ttaaaaaggc ttttgaagta aactgaagaa 600  
ttcactttat gagaaaaaca ttagaaacctt gttccttacc tacaatatac aaaattatta 660  
aagaggcatg tgaataatta taattgaaag agtatttaca tttattcatg ttttataatt 720  
ctgtgc当地 aattactaag aattgggtca gtttgcatt aatataat gcttgcatt 780  
ctgtatatgc caaagaaaact gcatctgtga catgtatata ttttctgttc tattgtact 840  
tgagaatttt actatgatata ttttagttct 870

<210> 109  
<211> 210  
<212> DNA  
<213> Homo sapiens

<400> 109  
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cagaaaattca agcaattctg gtgactacaa atgcattgtt ttggagaata gttgttaagg 120  
ggaaaaagaa ttaggaactc gacagatgtt gatgtttaac tttaataac aattcttctt 180  
ttgtttgtt ttgttgaga cggggctcg 210

<210> 110  
<211> 861  
<212> DNA  
<213> Homo sapiens

<400> 110  
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atggggagta ttcacacatt ttataaccac gaaattcaag caattctgtt gactacaaat 120  
gcatgttttgc gagaatagtt gtaaggtggc aaaagaatta ggaactcgac agatagttag 180  
ttttaacgtt taatttaacaa ttcttctttt gttatgtt gtttggagacg gggctcgct 240  
ctgctgccca ggctggagtg cagtggcagg atcacggttt attgcagcct taacctcctg 300  
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cacgcctgac taatttttaa atttttgtt gatgtgggt ctcccatctt gcccaggctg 420  
gccttgaact cttgggctca agcaagccctc ccacccctgc ctccccaaagt ccaaggatta 480  
caggtgttag ccattgcccc cagccagttt aacagttgtt gtgtgtgtt gtgtgtgtt 540  
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gcgaccatgg ctacagagaa gatactagaa ttctcaggct caagtgtatcc tctcacctag 660

aactagttag tagcagagga tacaggcata gaataacaga catggaatta attaaaaaaaa 720  
atgttagcg tggaagacag ggctctaaac atatgtgacc atggactggt ctagaacatt 780  
gtgaacgacg aagataatcc tcgtggactt gggacctcat caaaaatggtg ggacatacag 840  
gtgtgagcac gggtgcata a 861

<210> 111  
<211> 777  
<212> DNA  
<213> Homo sapiens

<400> 111  
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tgggtactca agaccagaca gatttggttt tacaatcata ttagtcattt ccagtctctt 180  
agcaaagaat ttgttgttca actgttagca attttctatt gttaatatgc tagaatgtca 240  
gctccacgga tggtggagat tgaccatac gttagattcc aaatggat ataggaaagc 300  
catttaaat gtcttaatat ctccagaaag gaatttcaca cttctcttta aaattttgat 360  
tttgcattt tcgttacctg cttatagagg cttttcatt tgcatttta actccataat 420  
ccaagaaaaa gcagttggc aaggggcattt tggttgtt gaaatgttct ctttttttag 480  
ctttaggc cacagaagac tgggttatt caaaaatggaa gtaatttaag aaatatgttt 540  
gttaattta taaggttagaa atttagagat agctctaaga attgcagtaa gccacagaaa 600  
tcaaatcgca agacttgaat actacctgtt ataacttaat cccaaataa aacgaatgag 660  
atgttgaatg tgaacatgtt ttgttaactt gaagggttgc tgcatttta gtacagcata 720  
ctagaaggta tgactgtgtt agagagaatg gagaattcag ctgccacaaa aatctgg 777

<210> 112  
<211> 1076  
<212> DNA  
<213> Homo sapiens

<400> 112  
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tgggtactca agaccagaca gatttggttt tacaatcata ttagtcattt ccagtctctt 180  
agcaaagaat ttgttgttca actgttagca attttctatt gttaatatgc tagaatgtca 240  
gctccacgga tggtggagat tgaccatac gttagattcc aaatggat ataggaaagc 300  
catttaaat gtcttaatat ctccagaaag gaatttcaca cttctcttta aaattttgat 360  
tttgcattt tcgttacctg cttatagagg cttttcatt tgcatttta actccataat 420  
caagaaaaaag cagttggc aaggggcattt gtttgtt gaaatgttct ctttttttagc 480  
ttttaggc acagaagact gtgggtattt aaaagtaaag taatttaaga aatatgttt 540  
tttaatttat aaggttagaaa atttagagata gctctaagaa ttgcagtaag ccacagaaa 600  
caaatcgca gacttgaata ctacctgtt taacttaatc cccaaataa acgaatgaga 660  
ttgttgaatgtt gaacatgtt ttgttaactt aagggttct tgcatttta gtacagcata 720  
tagaaggat gactgtgtt gagagaatgg agaattcagc tgccacaaa atctggctc 780  
ttccgctctc agactctgtt gaggaaagaa gatatgcaga aataaccacg tgataaatgc 840  
aaaaaagaag atattttgg gtaattttag gaaaggaaagg gtcacaaa tccctggcag 900

tccagagact cttgagaaaa agcatctaag caagtcctt aatgatgtgg catttcaata 960  
aaagagatgg agaggaggca ttttagatag gaggactgtt aggagatgga gaaacttgga 1020  
gacatattca gggaaaagca tcaagtccaa ctgagttaga actggagcag agtcgg 1076

<210> 113  
<211> 190  
<212> DNA  
<213> Homo sapiens

<400> 113  
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ttccccagt actttggatt gaaataaacg ggttagaatg gagaacagat gacaggagtc 120  
ttctctgaaa tttctgagag gccacacaat cttaggttga ataaagaagg aataagaata 180  
ggaaataacgg 190

<210> 114  
<211> 622  
<212> DNA  
<213> Homo sapiens

<400> 114  
tggggttgat tgagaaaagtg gccccaaagat aaggaagtcc tgtggccct cgcagcccac 60  
ccgccactat cagcgagcat gtgaggatat tggaccttca cccaaagattt catttagggg 120  
tatactaggg ttttagtgc taacactatt tgagagaaca ctgccccaaac agatctgcat 180  
ttacctatta ggcataaaaca cttggaataac caaatgtacc agatccgctc atagtagtaa 240  
gtcagaagtc agcttccttc ccctgttgg tttaggatacc accatgcgta atcatcctga 300  
aacaagggtg cgggggagga ttggaaaac ttgtccctaa ataagctgtt ttctaagttg 360  
agctccctt ctctagaaag tttccttagg aacattatgc atattggaga caaaagataaa 420  
accctttta ttaaagtaaa aaaaaatgtt gatagttgtt ggtgatgtcc aaataatatt 480  
ttcaagtcat attataatga tgggtttcc cccagtaactt tggattgaaa taaacgggtt 540  
agaatggaga acagatgaca ggagtcttct ctgaaatttc tgagaggcca cacaatctta 600  
ggttgaataa agaaggataa ag 622

<210> 115  
<211> 801  
<212> DNA  
<213> Homo sapiens

<400> 115  
cgtaacagg aaggacttac cccaccattc ttgggatctg tgtgagctgt ggaaaggcct 60  
cttggagat tataggtaa gaataccgtt ggcttcgcgt ggactttgaa aactaatgtt 120  
tgagcatttc tgctgccaga ggatagtgtt gttcgtgact cagtggctgg tcacacagag 180  
aagggtgaca cacagtgggt gaaagggtgg aggtgcgcgt gatgggggtgg ctgtgtgcaa 240  
aaggctgcca ctcagctggt cagggactcg tttgaatgtt gagtgtatgg tgagaatatg 300  
tgtcctctgg atggagttgg gatgaacag ggaaagttgt gtgagacttt atagaagggtg 360

cagtggctag agcaggcata ttcatgttgc tgtcagtaac agaaccgaag gcaaggctcg 420  
agctggagca cggtggggac ccaaagtgg agagactgtg tctgcccaca gggagtttat 480  
ggtcaggagg gatgggcaag tacagggata agtaacacaa gacagactgt gttaaacca 540  
cccagtgaag ttacaaccag aggtggtggg aatgcagagg aagaggggag cagagagcac 600  
ctgagatggg cttgagttca gaaggggaaa aatgaaggc cctccaggtt gaacagcatg 660  
agtgtcaga gacagcatgt atatggtta tggagaacgg tttgccttgt gagtaggtag 720  
ctctggaaa caacacttgg aaaaatttga ttgagttgc atatgttaagg cttaatgccc 780  
tgctaagaaa actatactta g 801

<210> 116  
<211> 1657  
<212> DNA  
<213> Homo sapiens

<400> 116  
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caagggtggca gtggctgtaa ttgtgccact gcactcctgc ctgggtgaca gagtgagacc 180  
ttgtctcaaa aaaagaaaaga aaattttaaa atttcttgaa acaaatgaaa atggaaacac 240  
aacatactaa aacctacagg atacagcaaa aacagtaact tgaagaaaagt ttatagcaaa 300  
agtgcctaca tcaaaaaagt agaaaaaactt caaataaaca acctaaaaat gaatcttaaa 360  
gaatttagaaa agcaaaaagca aaccaaacc accaatttagta gaagaaaaag atcacagcag 420  
aaataaatca aattgaaaca gaaaaaacac aaaagatgaa aggaaaaaaaa aactgggtgt 480  
ttggaaaaga taaacaaaat ggacaaacct ttagccagac taagaaaaaaaa agagagaagg 540  
ctcaaataaa taagatcaga gatgagacat tacaagcaat accacagaaa ttcaaaaagat 600  
cattagaaac tactggccag gcatggtgc taacacctgt aatcccagcc ctaagtata 660  
ttttcttagc agggcattaa gccttacata tgcttaactca atccaatttt tccaagtgtt 720  
gtttcccaga gctacctact caccaggcaa accgttctcc ataaaccata tacatgctgt 780  
ctctgaacac tcatgctgtt caacctggag ggccttcatt ttttccctt ctgaactcaa 840  
gcccatctca ggtgctctc gctccctct tcctctgcat tcccaccacc tctggttgta 900  
acttcactgg gtggttaaa cacagtctgt cttgtttac ttatccctgt acttgcccat 960  
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gtggcagcct tttgcacaca gccaccccat cacgcgcacc tccaaacctt caccactgt 1260  
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tcctgttacc gatgatggct ctgaatttcc aacacgcccatt aggtctccat gcccctttat 1500  
gcttcctggg tctcaaccac ttcaaaaccc ctcaaacagt acctatccaa agcaaatcgc 1560  
tggcaggcc cccaaacaga acctgtgaga cacagttaag gataggaaaa tgcaggcgtg 1620  
aagccatgac tgctgaccct tatagaagat gtgcctt 1657

<210> 117  
<211> 1041

<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (759)  
<223> a, c, g or t

<400> 117  
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ttaaagagga gggttattac tcaagaaaatt tgtacaaaat ataaaatac ttttaagta 180  
ttaagaaaat atctatactc tacaataat gttaccatgt agcatatgaa ggttatggta 240  
ttcttaactaa agaagcttaa gatttttca tggatattt ttctgccaga aaatatctat 300  
gtgcagtgtg gatatatgtat gttagaacaaa aaaattgtat atactccaaa gtattatcta 360  
atgcagaaaa ctgaaaatct tcaaaaagttt caaaaaaaaaact tcaccatgtc caatgcagct 420  
ggtagaaaa atatttctgc aagaccagaa ataaactaga agaaggattt acaggagtaa 480  
taaaactgag aaaccgctac tcccttcggg tcttgattta ttgcaaggac ctcaaacttg 540  
tgttagattgc ccaatttacc ctcttgaat aaacaaaagaa aaagtagtca ctgaagcaga 600  
tcataaaata taaaacacag aagaaaataa gctaccatctc taaagaatga gaaaaaaaaattt 660  
aattgtatac atttttagtta ttttaatata acttaaaata tttaagtaaa cgcaatgggt 720  
aaaatagaaaa attttaaaaaa atgatttggaa aagaccaana aattgttaaac taaacaagca 780  
tatttggaa aggagccaaa gagaaatttga aaaaaaaaaat aagtttaata cacaatattt 840  
gggttaata ttaagttaga ctcacatgtt aaaaagatta gtaaactgca atattgagca 900  
gaatgaatat caccaataa agacaaaata taaaataaca aatataatta taggaagaat 960  
atgagaagga aaatacattt aaattatcca atagaatata taaaactata gaatatgtaa 1020  
atagaatgtt taaacatttc c 1041

<210> 118  
<211> 688  
<212> DNA  
<213> Homo sapiens

<400> 118  
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aacatatgtc cttaaagta agagtacctc cttcccagat acgtgcagag cccagcccta 120  
cccagttctg aagccactct gacacagacc aatgtttttt cagggttctc aggctttat 180  
ctcacaggtc tgcaacctgt tctgttgcta caggcaccat atctagtgtc gtagtagaca 240  
ctaggagaca aaggcgaaaa ggctttcatt cctgacacag cctgcataatt tgctctaatt 300  
tgaagtgggtg tgaacacact gccaaggaaag cccagaggag ggaaggaata aagctgcctt 360  
gaaggacaaa gaggaagtgt ttccagagga ggcaacgattt gaatgggacg aaagcttcac 420  
aggacttcac tgaaccagag gatggagaag gacactctt ggtatggaaa agttgaaaaa 480  
tcccaaagag gcatgttaca ctatgaagcg tttggacaat gggctacaca aggttgaat 540  
gggagggttgg aataaaactgt tgaagagctt tttagcagcca tggtaaagtg tctggatttt 600  
atctcaatgc agcaaggcga ggggtgaag aatcacataa taaaataggc atctgctcct 660  
gaaataacca tacagaattt aatttattt 688

<210> 119  
<211> 762  
<212> DNA  
<213> Homo sapiens

<400> 119  
cagaagccca gttataaaaaa ttaggctgtc tgatggagac agggataagct ctggctattt 60  
atttaaaaaaa aaaatttattt cctaagtact cattttaaac cctcctctgt tttatggaa 120  
ggtgctgccccc ctttaacata tgcctttaaa agtaagagta cctccttccc agataacgtgc 180  
agagcccccagc cttaccaggc tctgaagcca ctctgacaca gaccaatgtt ttttcagggt 240  
tctcaggcct ttatctcaca ggtctgcaac ctgttctgtt gctacaggca ccataatctag 300  
tgctgttagta gacacttagga gacaaaggcg aaaaggctt cattcctgac acagcctgca 360  
tatttgctct aatttgaagt ggtgtgaaca cactgccaag gaagccaga ggagggaaagg 420  
aataaaagctg ctttaacata gaaagaggaa gtgttccag aggaggcaac gattgaatgg 480  
gacgaaagct tcacaggact tcactgaacc agaggatgg aagggacact cttaggatag 540  
gaaaagttga aaaatccaa agaggcatgt tacactatga agcgtttgga caatgggcta 600  
cacaaggttg aaatggagg ttggataaaa ctgttgaaga gcttttagca gccatggtaa 660  
agtgtctgga ttttatctca atgcagcaag ggcaggggtt gaagaatcac ataataaaat 720  
aggcatctgc tcctgaaata accatacaga atttaattat tt 762

<210> 120  
<211> 576  
<212> DNA  
<213> Homo sapiens

<400> 120  
ggtgtaagcc accgcaccccc gcccagcctg gcagatttttta tttaatcatt ttagcttca 60  
tttcctcgt ctgtcaaaca gggataactgt aatacaacct cagtgtgtca ttgggcagtt 120  
taaatgaatg tacatttcgtt aggcatcaga actttgttca ctgttatata cccaatgcct 180  
agaagaggac ctgcacatag caggtgctca gtaaatgtt gttgaatgaa tgattaagtg 240  
catgtaaagc attaagcata ggcgcctggca gtaagtgtc aatattatga cttcttatat 300  
taacacgttt tacatataaaa gaaatggagg caagaaagca ttcccttgg ggtttagagc 360  
gcttaagttt ttcctctgtt atcatgcctt aattcccccg cccctcagtt acctggggaa 420  
gagtaaaggc aagaattctt accagcatta gtcatacatc ctcctgatag gaatctgcga 480  
aaacacacac ttctgctttt agttctatcc tttagaattct ctcctgggtt gttgctcctt 540  
tggccttca ttgtataaaa aatggattct gaaagc 576

<210> 121  
<211> 1055  
<212> DNA  
<213> Homo sapiens

<400> 121  
ctcagcctcc agagtagctg ggactacggg cgccccacca ccacgcccgg ctaatttttg 60  
tatttttagt acagacgggg tttcattgtt ttagccggga tggcttgat ctcctgactt 120

gtgatccgcc tgcctcggcc tcccaaagt cttggattac aggtgtaagc caccgcaccc 180  
cgccccagcct ggcagatttt attaatcat ttgttagcttc attttcctcg tctgtcaaac 240  
agggatactg taatacaacc tcagtgtgtc attgggcagt ttaaatgaat gtacattcct 300  
gaggcatcag aactttgttc actgttataat acccaatgcc tagaagagga cctgcacata 360  
gcagggctc agtaaatgtt tggtaatga atgattaagt gcatgtaaag cattaagcat 420  
agcgccctggc agtaagtgtc caatattatg acttcttata ttaacacgtt ttacatataa 480  
agaaaatggag gcaagaaaagc atttccttg gggttagag cgcttaagtt gttcctctgt 540  
tatcatgcct gaattccccccc gcccctcagt tacctgggaa agagtaaagg caagaattct 600  
taccaggcatt agtcatacat ctcctgata ggaatctgcg aaaacacaca cttctgcttt 660  
tagttctatt cttagaattc ttcctggc tggtgctcct ttgttccttc attgtataa 720  
aaatggattc tgaaagcaaa aaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa gcacaagaag 780  
gaagaacaaa aaaatagcac aataaaaagac aacgaagaca tagggaagcg aagaaacaaa 840  
gaaagagaca gccagagacg aagcaagaag aaacagacag cagcagaacg gaaagacgaa 900  
caacgaactg cgacaggata gcaaccgaaa ccacatagac atagaagcca gaacagaacg 960  
caagggaga gaaaaaaaaaca ggacgaggaa aggaaataga caccacaata gagaggcaat 1020  
aacccggccac gaaacaacaa gagacgagac cacaa 1055

<210> 122  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 122  
accgattttc ctacatataat gccaacttcc atggctcttt ctttaccaca tggaaaactt 60  
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tattctacat ctaaatatcg ctgggagttt gagttggag agatttgc tggaaac 180  
atcattggtg gtgacacccct gtataatgaa tttagaaagga ctatagaaaa gtagagtcac 240  
ctagaaatgg tttaactgg gtttaccag tttagaaactct gtgatttggaa atatgttatt 300  
taacttctct gggcctccgt gttctcaaat ataaaaattgc tggatgtatc ctttacgttat 360  
aggatttttg tgaggctttg tgaaggaggg aacacatgtt aagagtttag cacaaggctg 420  
gacacatagt caggctcaac aatggcgat ggtatgtt tcctaagcaa ttctatacta 480  
cagagaacat tctcataaaaa ggctgttccac aggcgagctt aggccttcag tccttcaaat 540  
agacactaac acgagc 556

<210> 123  
<211> 749  
<212> DNA  
<213> Homo sapiens

<400> 123  
acctgttatt acaggcatga gccaccgcgc ccagccccat ttcatgtctt ttccagccaca 60  
atattagatc cattaatctg ttttaaggac acaccgattt tcctacat atgccaactt 120  
tcattggctct ttcccttacca catggaaaaac ttttgaagta gtgtgatgtt gaagaagaat 180  
ttgtgatatg ttccaccat atgctttaga gatattctac atctaaatat cgctggaggt 240  
tagagttggg agagatttgc tctagaagca acatcattgg tggtgacacc ttgtataatg 300  
aatttagaaag gactatagaa aagttagatc accttagaaat ggttttaact gggtttacc 360

agttagaact ctgtgatttgaatatgtta tttaacttct ctgggcctcc gtgttctcaa 420  
atataaaaatt gctgtgatgatccctacgtt ataggattgt tgtgaggctt tgtgaaggag 480  
ggaacacatgtaaagagttt agcacaaggctggacacata gtcaggctca acaaatggcg 540  
atggtagtttgcatttcttaaagcaattctatac tacagagaac attctctataa aaggctgttc 600  
acaggcgagcttaggccttc agtccttcaa atagacacta acacgagcac ctgctttgc 660  
tgttagcatttgcttaggtgc aagagaatca gacatgtaaa acaaataccc tgctctaattg 720  
ttcatagtgatcataaaaataaaacaagt 749

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<210> 124  
<211> 122  
<212> DNA  
<213> Homo sapiens
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<400> 124
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gggtgggtcg gggatatatcc atgtcccagt gtttagtggtgc ttctgacaaa actcatgctt 120
tc                                              122
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<210> 125  
<211> 583  
<212> DNA  
<213> Homo sapiens
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<220>  
<221> unsure  
<222> (488)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (528)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (553)  
<223> a c a or t

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<400> 125
agaaaatttag aatttaaatg ttgtttaggt catctttgg tagatccaat caagttaaa 60
attctaccat gtcttgata tgagcatatg actcattgat ggcgttcagt aaaatcttc 120
tgtgtagttg gttaaaatt tgactaaaa cagggatata atatttacct tcccttaggt 180
aacagattt aqttatgtaa taaccttgac atgttacaa aatcatgtt aatgggctct 240
ccagagctcc agtgaataacc acaatttggc ctgtttcaa catttttaag gaatctggga 300
aagctgttagg aaatgaaata tgtgtcctaa actttttgtt tcaggcttaa ctactgttt 360
cttqaqttt aqcaaaaagga taaaggactg tatgttcttc cattaactgt agtcaaaaact 420
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gaatttaagg attttgata gctgtttaga attactgtt gaatctctac tacaagaat 480  
attaagantt ttagcattga gagtccta ataccactt aacaatcntt agacttactt 540  
tgggaggggcc aangcctaag ggtcacatgg tcaggagtcc taa 583

<210> 126  
<211> 91  
<212> DNA  
<213> Homo sapiens

<400> 126  
accgcgccca gttgtcatt tctggtttct aagaatcaaa ccacttggt gtttttagga 60  
gttacttccc atgttataaaa gctgaggaag c 91

<210> 127  
<211> 869  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (400)..(634)  
<223> a, c, g or t

<400> 127  
gatgattta ggtaggca tggtcagttt gaagtactgg aatatccaag tgaagaaatc 60  
cattgttagc tagtagata ggtatattgt agggtattct cttaacata aaaatggatg 120  
agtgttaat aattaaaaaa taatagaagt tgaccagttt gttgtatctt ctgtggattt 180  
gagaatcatc aggacataaa ttataattga aagcacggga atggaggatg acctaggaaa 240  
tgtaaagaat gagaaggaaa gattgttcaa gatgaaaccc tggggaatgc tggctttaag 300  
aaggggccac cgcccccagt tgtgcatttc tggttctaa gaatcaaacc acttggctgt 360  
ttttaggagt tacttccat gttataaagc tgaggaagcn nnnnnnnnnn nnnnnnnnnn 420  
nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540  
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nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncaaatgc ctggattgca ggcattgagcg 660  
cctagccagg aagctatctt ttcttgagtt atgaaactt gcaacagttt ttcaaattgg 720  
tggttgcct tcctatacgct ttcataattt caaattaatt ctgtatggct atataattta 780  
tggtttaaaa ggcattctt tgactttgga aatatggaag tctctccctt aacctattct 840  
tgttcccatt cccagtcata tttgaaatc 869

<210> 128  
<211> 585  
<212> DNA  
<213> Homo sapiens

<220>  
 <221> unsure  
 <222> (40)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (79)..(131)  
 <223> a, c, g or t

<400> 128  
 actgaaacag gactagtgtg gtctgggtgt actgcatgan gagaggggca ggtagtgtga 60  
 gataagatca gggtgaagnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 nnnnnnnnnn naatttctta gagactaaca tgattaaatc aaatcagact gattttagaa 180  
 acaaacaaaa aatgctaaat ttattacttg aatactaaaa ctgatttta cataaatatt 240  
 atactgattt caaaataaaa atggttatac ttaattaata ttaacaatt aagttgtga 300  
 atacatattt caatattgaa agtttttat acattattt cttatgagt tttatatgcc 360  
 ctcttacatg aggggatcaa aaaacattca gatggataag tgagaggatg caaaaaatg 420  
 taggcataaa attacaccat gtgtatggaa aacaatgaat attttattt ccattattt 480  
 ctaatataca tccatactca taaattcatt atacttcgt tgatgagaca tcaatttac 540  
 attcagctaa actctcattg taactgtgta cttctcaat tataa 585

<210> 129  
 <211> 118  
 <212> DNA  
 <213> Homo sapiens

<400> 129  
 accacacctc accagattt taaaaaatat ataactgcat ctctcttgat tctgggctt 60  
 ggtaaaaatg gatagataag atagtattct aaattcaaatt tcgtggctag gcacagt 118

<210> 130  
 <211> 1436  
 <212> DNA  
 <213> Homo sapiens

<400> 130  
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 ctttgataat attggcataa tttagattta ttttctttct ttttttgag acagtctcac 180  
 tcagtcgccc aggctgaagt gcagtgcac acgtctcagct cactgcaacg tctgcctccc 240  
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 cacacaccgc taatttttgc tatttttgtt ggagacggag tttcaccatg ttggccaggc 360  
 tgcgaactcc tgagctcaag tgatcctccc acctcagctt cccaaagtgc tagcattaca 420  
 ggcatgagcc accacacctc accagattt taaaaatataaataactgcat ctctcttgat 480  
 tctgggctt ggtaaaaatg gatagataag atagtattct aaattcaaatt tcgtggctag 540

gcacagtggc ccacacctgt aatcccagca ctttgggatt ccaagacaga agactcactt 600  
gagtagacta tgagaccagc ctgggcaaca tagatcttgc ctctacaaaa aaaaaaaaaa 660  
atagccaggt gtggcacatg cctgttagtct cagctgcttgaaggctgaa atgagaggat 720  
ctcttgagcc caggaggtct aggccagagt gagctgtat cgtgccatttgcactccaga 780  
ctgagtgaca gagtggact gtgtctaaaa aaaaagttt aattaaaaaa aaaaaaaaaa 840  
aatgtcgctt gtgcaggggg gctcatgcct gtggacccca gcacttcgg agggccaaca 900  
gggggtggga taacctgttg aggctcagg agttggaaa ccagcctgtt gaccacacgt 960  
gggctgaacg cctccgttcc ctaagtaaca actatcaaaa tattttaccc ctgtggacta 1020  
tagcgggcgc atgctgtat aaaccccgcc taactggag aggcttgagg cagggagaatc 1080  
ccttggacc ccgggaaggg ccaagggtt gacgtgacgc tgagattgtt ccactgcata 1140  
cagctggggc acacatttag cacaatctct ccatctctaa gataccccac agaccaaaac 1200  
acaaactcca atttgcattt taagatcggg cacctaggat tcagttcctt aaacgtctt 1260  
gtcacaatta agggcaaata cttataacgc caaatgtacc tcggcgtctg cacacttta 1320  
ccacttgtct ttggccaaag ggtatgtttt accaccggg aggtcgtcag ccaccaatgt 1380  
gctcttaact tagcaaccat gacctcgccg gtctagaaaaa cgcattgttt cccacc 1436

<210> 131  
<211> 178  
<212> DNA  
<213> Homo sapiens

<400> 131  
tacatttgat atttgatact gtaaaaagct agctatcaca actgtccata ctagttctct 60  
tcgagagaat aagtgttccc tggatagata gatatttagtt atagatatta taagttataa 120  
ttatagtata agttatatct tcagtcataa atactataag attcagctga gcaagggt 178

<210> 132  
<211> 775  
<212> DNA  
<213> Homo sapiens

<400> 132  
tcagcctcct gggctcaagt gatcctcctg cttcagccctc ccaagtagct gggactacag 60  
gcatgttcca ccacacctcg ctaattttaa acatttttg tcactatgtt cctcagcctg 120  
gtctcaaact cttggcctca accagtcctc ctccttaac ctcccaaaat gttagaatta 180  
tgggcatgag ccaccgtgcc tggcctacat ttgatatttg atactgtaaa aagctagcta 240  
tcacaactgt ccataactgt tctcttcgag agaataagtg ttccctggat agatagat 300  
tagttataga tattataagt tataattata gtataaggta tatcttcagt cataaataact 360  
ataagattca gctgagcaag gtggcatgca tctgttagtcc cagcttagtt agatcaaggc 420  
taaggcagga gtcttacttg gacttaggag tttgagtcata gcctcatagt gataccttgt 480  
ctactgaaaa aaaaaaaaaa ttgaaccatt gttccactgt ttatgattt ttttgtgctt 540  
aattcttatt tatgaatttt tttttcttagt ctgtttctag agagaataaa gcccagggtga 600  
ataactttgt tttcttctg tttttagaat tattagtaac aaatccgtgt tcttaatggc 660  
agtagcaaac ctgtcttctg tagaattttt aaagagatgt ttctgtcatt agtaatacag 720  
agaaggcctt gatcattttc agaataaaga atttacgac agggagaggt ggctc 775

<210> 133  
<211> 535  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (187)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (190)..(219)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (224)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (228)  
<223> a, c, g or t

<400> 133  
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ttattgagct gattctaatt acaaacaaaa gcaggccttg ccctcaacag taaaaataag 120  
ggagaacagg acaagaatac ctgacatgac accagctata ttatatatgt gtgtgtatgt 180  
atatatnccn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnna tatntatntg actatctgg 240  
tagccatata tgaaccaagg cctgagggaa gagctgatac taagaggagg ttttaaaga 300  
tgatttagag aatgtttata gaacagtctg tatgagagat ttgaggttt tgtttggttg 360  
gttttgtctt tggcagtagc ctgaaaaaac acataaagag ttaagaatat gtttatagg 420  
tttgggggaa gcatcctgta gagagagtga atttgaacag aaaaaagaga gagggaaagc 480  
tggcaaaaagc aagtctgact cctgatgcaa aatgcatgag aagactggat aaaat 535

<210> 134  
<211> 579  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (184)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (187)..(216)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (221)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (225)  
<223> a, c, g or t

<400> 134

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ttgagctgat tctaattaca aacaaaagca ggccttgccc tcaacagtaa aaataaggaa 120  
gaacaggaca agaataacctg acatgacacc agctatatta tatatgtgtg tgtatgtata 180  
tatnccnnnn nnnnnnnnnn nnnnnnnnatat ntatntgact atctggtag 240  
ccatatatga accaaggcct gagggaaagag ctgatactaa gaggaggttt taaaagatga 300  
tttagagaat gtttataaaaaa cagtctgtat gagagattt aggttttgg 360  
ttgtctttgg cagtagcctg aaaaaacaca taaagagttt agaatatgtt ttataggttt 420  
ggggaaagca tcctgttagag agagtgaatt tgaacagaaaa aaagagagag ggaaagctgg 480  
caaaagcaag tctgactcct gatgaaaaat gcatgagaag actggataaaa attccactt 540  
gcatgtttat agcagcatta atcctaaaaag ccagggcg 579

<210> 135  
<211> 503  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (421)  
<223> a, c, g or t

<400> 135

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ataaaagagg gagctctta taaccataaa ttatacagct cagcattcc catttttct 120  
tttcttcctt gtgccaatgc ttgggaggaa accagagttt gaacaagaac tgttttacct 180  
tctagtggag aaaggacaat ttgcagtggaa aagaatgtgt gtgtcgccg tttgatctgt 240  
aaaatgtgaa ctgcttctgt agtcctgagg actgaggaaa agagatgtt agtaaaagtt 300  
actgataatt ccagcttattc aatcttatct cacttttcc tcttttat ctctgccccaa 360  
atacctctac ttatgcaccc actttgaatt tgcaacagtg aaggctgggg gataggagac 420  
ngccagtagt gctgagtagt gtcaagtaca gttaacagtg aaatgcggat tttcactcat 480  
caaatcagca atcttaaatt ata 503

<210> 136  
<211> 435  
<212> DNA  
<213> Homo sapiens

<400> 136  
gcagttgaac tgaatagtca ttgagaccct ttctgcgtat gtgctgctat accagggcg 60  
atgatggggc agtggttcc agacatgggaa gccagttcggt ctgtgaggat tttctccagg 120  
catagtcaag tgtggaaaat gaggacaatg tggtgaacctt ttcataaaacc aatggattca 180  
gggtgaagac ctggccattt tttctgaga ttatatctct ccaatctta tccttagcca 240  
cagtgtcttc tttaatgaaa tggtgttgat tatggatgat agatttttt ttctgttggc 300  
caaattagaa gttggaaacc cttaggttggattt ccattttttt ttcccaaat ttcaaagctt 360  
taccagtttggatgtt agaaatccca gaatctcagt cctcaagaaa ttgaaacctc taacaaggat 420  
acgtggatgtt gcaca 435

<210> 137  
<211> 596  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (569)  
<223> a, c, g or t

<400> 137  
gcagttgaac tgaatagtca ttgagaccct ttctgcgtat gtgctgctat accagggcg 60  
atgatggggc agtggttcc agacatgggaa gccagttcggt ctgtgaggat tttctccagg 120  
catagtcaag tgtggaaaat gaggacaatg tggtgaacctt ttcataaaacc aatggattca 180  
gggtgaagac ctggccattt tttctgaga ttatatctct ccaatctta tccttagcca 240  
cagtgtcttc tttaatgaaa tggtgttgat tatggatgat agatttttt ttctgttggc 300  
caaattagaa gttggaaacc cttaggttggattt ccattttttt ttcccaaat ttcaaagctt 360  
taccagtttggatgtt agaaatccca gaatctcagt cctcaagaaa ttgaaacctc taacaaggat 420  
acgtggatgtt gcacatacga tgctatgtct caaggatgac attttagtgcc ctccaagaag 480  
tagaagtgtat gcccggggAAC caccaaggaa gaaggaccag catctctctg gggagcctgc 540  
agacggatgtt tgcatgaaat gctttcaang gatggacatg ggactgaaag gagttt 596

<210> 138  
<211> 467  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure

<222> (56)..(187)

<223> a, c, g or t

<400> 138

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnncta aggagtattc tagtgaagaa aatggttgaa cttgtttaa actggtgat 240  
ggcaaacttc actgttgaaa tacttattcc catgacctat tatcttgta ggtgggtgaa 300  
attgcattgg gaactgctgc tataaccaaa agagaatttc agtcaccatg tctggttgtt 360  
agctatgatg gaatggcagc atcatggct cagttatgag tgaaaatctt tggttagct 420  
aagttagtgtt gcctcctgag ttttattaaa tgccgttca ctatctt 467

<210> 139

<211> 126

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (5)

<223> a, c, g or t

<220>

<221> unsure

<222> (13)

<223> a, c, g or t

<400> 139

ccaangcgtc cgngcacata aaaccatcag ttataattaa cacacaatca ccactcctat 60  
ataagactct cgtagtatct ctaaaagatt cagtagttat ccactgggtt gatcttcatg 120  
ctgtgt 126

<210> 140

<211> 535

<212> DNA

<213> Homo sapiens

<400> 140

acgcgtccgg cgaaggcaaa ataaaaatt caggaagaat cgagtgtcct ctcttataag 60  
ggagcacctg aagacttgga ataggtatct tcaccaaaga ataggagaag agcggagaac 120  
ccggccccac aaggcatcct ttgaaggatg aagacaacta ggaaggctcg atttctgggt 180  
accatgtgaa cagagaatag aggggagtc gggaaactc agctgtgtca aaagcagccc 240  
ataaatgtca tcgaggataa gcactcgaag atcggtgtcg ggctttata gccaaacaatg 300  
cagaaggatca ttgcctgctt ggctaagacc atttctgtga aaagaagagg attttaact 360  
ggaatggat gagtagagca gcctttctg catttctcc tttgctggct caagagaagc 420

agaaaacaaac cctattccca gaactatgct gacaacattg atgatggcag cacacaaatt 480  
aggaggtaaa caaaaacgcca tgttaatttc aggctccatt agaaacacag tcagg 535

<210> 141  
<211> 960  
<212> DNA  
<213> Homo sapiens

<400> 141  
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gcgattacag gcgtgagcca ctggataagt cattttaaa aagaggttct tatgctttc 180  
aaatgttatt actgattgaa aaatgcttct ggagaagatg aatattggta atgaaataat 240  
agaagctgac taatggacaa aacagtggga tcaaaaagact aggaagactt aaagacccaa 300  
gcaaaaaccca tctctgtttc taaaaattgt tgtgacattt caaaacactt tctcacagaa 360  
gaaatactat ctccccatct cccaaactga gcttgatatg accatgaagc ataagcataa 420  
cttagtgtga gaaagcgaag gcaaaataaa aaattcagga agaatcgagt gtccctcttt 480  
tatagggagc acctgaagac ttggaatagg tagcttcacc aaagaatagg agaagagcgg 540  
agaacccggg cccacaaggc atcctttgaa ggtgaaagac aacttaggaag gctcgatttc 600  
tgggtaccat gtgaacagag aatagagggg agtcagggaa tactcagctg tgtcaaaagc 660  
agcccataaa tgtcatcgag gataagcact cgaagatcgt tgtcgggctt ttatagccaa 720  
caatgcagaa ggtcattgcc tgcttggcta agaccatttc tgtaaaaaga agaggatttt 780  
aaactggaat gggatgagta gagcagccctt ttctgcattt cttcccttgc tggctcaaga 840  
gaagcagaaaa caaaccttat tcccagaact atgctgacaa cattgatgat ggcagcacac 900  
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<210> 142  
<211> 564  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (554)  
<223> a, c, g or t

<400> 142  
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tctgtcaagc tagaagaaaa atgtcaactaa aataattcaa gacaattttt gtactttcca 180  
acgatgttca ggtaacagct gaaaatattc tcacttattt gacttgagga agaaaattcg 240  
aacgagggaaa atcatcaagg atttgctaaa gtccttctg taaaatcttc cttaaggaag 300  
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actgacttgg tttgtttct agaatatatg taaaagtaag agtgtgtata tataacccat 420  
tatgtacata acaagaacag ttccttccaa tattcaaatt tcatgactct agatcaactac 480  
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564

<210> 143  
<211> 4906  
<212> DNA  
<213> Homo sapiens

<400> 143  
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cacacattaa taatggaga ctttaacacc ccactgtcaa cattagacag atcaacgaga 180  
cagaaaagtca acaaggatac ccaggaattt aactcagctc tgcacccaagc agacctaata 240  
gacatctaca gaactctcca ccccaaattca acagaatata catttttttc agcaccacac 300  
cacacctatt cccaaatttga ccacatagtt ggaagtaaag ctctcctcag caaatgtaaa 360  
agaacagaaaa ttataaacaaa ctatctctca gaccacagt gcatcaaaact agaactcagg 420  
attaagaatc tcactcaaag ctgctcaact acatggaaac tgaacaacct gctcctgaat 480  
gactactggg tacataaacga aatgaaggca gaaataaaga ttttttttga aaccaacgag 540  
aacaagagaca ccacatacca gaatctctgg gacgattca aagcagtgtg tagagggaaa 600  
tttatagcac taaatgccta caagagaaaag cagggaaagat cccaaatttga caccctaaca 660  
tcacaattaa aagaactaga aaagcaagag caaacacatt caaaagctag cagaaggcaa 720  
gaaataacta aaatcagagc agaactgaag gaaatagaga caaaaaaaaac cctcaaaaa 780  
atcaatgaat ccaggagctg gtttttttga aggatcaaca aaatttgatag accgctagca 840  
agactaataa agaaaaaaaaag agagaagaat caaatagaca caaaaaaaaa tgataaagg 900  
gatatcacca ccgatcccac agaaatacaa actaccatca gagaatacta caaacacctc 960  
tacgcaataa aactagaaaaa tctagaagaa atggatacat tcctcgacac atacaccctc 1020  
ccaaagactaa accaggaaga agttgaatct ctgaatagac caataacagg ctctgaaatt 1080  
gtggcaataa tcaatagttt accaaccaaa aagagtccag gaccagatgg attcacagcc 1140  
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cttaagctga taagcaactt cagcaaagtc tcaggatata aatcaatgt aaaaaaaaaatca 1920  
caagcattct tatacaccaa caacagacaa acagagagcc aaatcatgag tgaactccca 1980  
ttcacaattt cttcaaaagag agtaaaatac cttagaatcc aacttacaag ggatgtgaag 2040  
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gaattggaaa aaactacttt aaagttcata tggaaacaaa aaagagccccg cattgccaag 2280  
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tacaaggcta cagtaaccaa aacagcatgg tactggtacc aaaacagaga tatacatcaa 2400  
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aaACCTgAGA aaaACAAGCA atGGGGAAAG gattCCCTAT ttaATAATG gtGCTGGAA 2520  
aactggctAG ccataTgtAG aaAGCTgAAA ctggatCCCT tccttacACC ttatacAAAA 2580  
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gaaaACCTAG gcattACCAT tcaggACATA ggCGTGGACA aggACTTCAT gtCCAAAACA 2700  
ccaaaAGCAA tggcaacAAA agccAAAATT gacAAATGGG atctaattAA actcaAGAGC 2760  
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caaatttACA agaaaaAAAC aaACAACCCC atcaAAAAGT gggcGAAGGA catGAACAGA 2940  
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ctggCCatCA gagaATGCA aatCAAACCC actATGAGAT atCATCTCAC accAGTTAGA 3060  
atggCAATCA ttaaaaaAGTC agggAAACAAC aggAAAAGCT gtATCACTAG tCTGAGAGCT 3120  
gtccatATGG agaAGCTGAA ggAGGGAGGT CCTCCAAAAG ttGATCCAAA tactACTGGG 3180  
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aaggCCTGAG acccGAGGC cactGCTGAT gagaATCAGA aaggCAGCAA acatCTGAG 3300  
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gctCTTATTt actATAGACA aatGATTGGA gggTGTGTA attGGGGTAA aagtGGGCTT 3420  
gtcaAGGCTC ctGTGGGCCA tgatATGGAT tCTTCATCTG aggaAGAACa CCTGGAGTAC 3480  
atcCTTGTG AGTTTCTG ggcAGGTAAA catATTTTC caaatGAAT CTTACATAGG 3540  
accCGAAGTG taaaACAGAT aaaAGGATT gttCTGGTT aagcAGGGCT ggAGGGAGCAC 3600  
caagCTCTGC ctatCATCTT tCCTCCCCCT tacCTGCAGG gaaACCCAC caAGAGTCCT 3660  
ttcAGGGCAG tcATCTCACC ttGTTGTcat acAGCATCGG tgaATGACCC tCTGCTGCgA 3720  
cacACTGACC accAGACTGT gggGCTGCCA gtGATAccAA agAGGcACAcA tcaAGAGCTA 3780  
gagaACACGG ggCCCGAGAA ggCTCTTGGT tttCTCTGT aagacaACAA tgACCAGGAT 3840  
tgaccCTTtG gtCTCCatGA gtCCCTGACC ttCTTAGAAT gcACAGTAGT gatCTAGAGT 3900  
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cagAGACAAg ccACCTGTCT gaataACCTTt agtATGTATA atAGTAGTGG tacACATGAT 4320  
aatATCACTC taaACACTGG aggCCTCTCT tcccACAGTT tgCCATGCAG aACATCTAAT 4380  
tCTATCCATG agggGCCAAA GCCAGTgAAA gcAGAAAAGG agtATTcAcc acGcAGGGAT 4440  
cacAGAAAGA actATGAGGA ccGGGCCAGA gagTTGGGA caaATAGTGT tcAGCCCAGT 4500  
tttagACCTG gcACAGTTT cccATGCAAa accATTCCtC ttcAGACTC tACCCCTTA 4560  
gttCCtGGCC tcATTTCCGT CCTGACCAGG tGTTCTATAA acACAGTCCA ttAAAGAAAA 4620  
ttCTTAATAt atGTCCATGA atCCCCTTGt gtaATGACT aaAGTTCTATCt acTTCTATGG 4680  
tgacGACCTt ggCTATATTc ctggAAAGTC cacATCTAGT aaaACTCATC ACTGTACTCC 4740  
aaggTACCAA atAGACATGG aAACTAAGTA aaAGTGGTTt gttGCTATT caAGTGTAGC 4800  
ttCCAGCCAA gttGCTGACT ctcAGCCACT ctggTATAGA cattCTGGAG ctGCCACACT 4860  
catggCTGAT ggtGCTcACA tgCTGAAGAA acACAGTTG catCAT 4906

<210> 144  
<211> 320  
<212> DNA

<213> Homo sapiens

<400> 144

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ctgcagataa gactcaggag tggcttccag agaggtggca ggaatgtgta ctatcatagt 120  
aacctgtagt agtttacta gtagtagctc tgacttgagc aattgggtt actgaaatgg 180  
gaaagattgg aggaggatta aactttgtaa agatattgaa ccaggttca gatatactgt 240  
ctggagctta aaagtcttaa gtagtataat aaattacaca gggaaagaat ctagagtagg 300  
agccaggtgc agtggcacat 320

<210> 145

<211> 458

<212> DNA

<213> Homo sapiens

<400> 145

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ctccaactcc tgtgctcaag ggatcctccc acctcagctt cccaaatggataat agggaccata 120  
ggcatgtgcc actgcacctg gctcctactc tagattctt ccctgtgtaa tttattatac 180  
tacttaagac ttttaagctc cagacagtat atctgaaacc tgggtcaata tctttacaaa 240  
gtttaatcct cctccaaatct ttcccatttc agtaccacca attgctcaag tcagagctac 300  
tactagtcaa actactacag gttactatga tagtacacat tcctgccacc tctctggaag 360  
ccactcctga gtcttatctg cagatctgat ttggcctacc agactcccgat atgttggaaat 420  
tctttaagtt cagtcagtct ttgcttctct aaaatctt 458

<210> 146

<211> 115

<212> DNA

<213> Homo sapiens

<400> 146

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<210> 147

<211> 69

<212> DNA

<213> Homo sapiens

<400> 147

gttcttatatg aaatagattt aatagattt gatatttggg tgatatttctc tttactatgt 60  
tcatttagtg 69

<210> 148

<211> 431  
<212> DNA  
<213> Homo sapiens

<400> 148  
tagttctaat gaaatagaac tatgtcatta gttctatatg aaatagattt aatacgattt 60  
gatatttggg tgattttctc tttactatgt tcattagtga attacattaa ttgattttct 120  
aatgttgaat ccaacgtgta tgttttttt ttttgagacg gagtctctct gctgtcgccc 180  
aggctggagt gcagtgggtgc tatctcggtc cactgcaacc tctgcactcc taggttcaag 240  
tgattctcct gcctcagcac tcctgagtag ctggattcc aggcacacac cgccacccct 300  
ggctaatttt tgtattttt gttagagacgg ggttcacca cgttggtcag gctggtctcg 360  
aactcctgac actcatgatc cgcccgcatc agcctccaa agtgctggga ttacaggcat 420  
gaccaccagc a 431

<210> 149  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 149  
tattttattt ttatgggtt acttttagat tctaataatgc ttacacctacc acaggttact 60  
tttaaaggcc attacgccat taaaatacg gtataagaac ctaacaactg tataacttcca 120  
ctttgtccat ctacttttg taccatgatt gtcacacatt ttacctatgt tataaattcct 180  
tgcttgatca ctattattt tgtttagtca attattgtat aaagatattt aaacaataag 240  
aaaaatacat atctacctgc atagtc 266

<210> 150  
<211> 300  
<212> DNA  
<213> Homo sapiens

<400> 150  
gctcgaggaa gcattatgat acatttattt tggaagagag gggtagttt aacttggttc 60  
atccactgat gttcttattt tagctatgat atttcttaat ctgataaaac aataacttata 120  
ggcaaacgtt tctcacttat gtatagatga aagtatgatt tatataacct tgccatacaa 180  
tagggaccca ttaattactg aagtaattaa tgtttttga gatgtctata atatgttgc 240  
gttggtaag attttagaaa gttttatttc ggccgggtgt ggtcgttcat gcctgtaatc 300

<210> 151  
<211> 579  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure

<222> (530)  
<223> a, c, g or t

<400> 151  
tctgcgtcgc tcacgctggg agctgttcct gttcagccat cttagctcca cccaccccat 60  
gagagaatat tcttaaaaacc aaatacgtca tagaagcatt atgatacatt tattgtggaa 120  
gagaggggta gtttaaactt gttcatcca ctgatgttct tattgttagct atgatatttc 180  
ttaatctgat aaaacaatac ttataggcaa acgttctca cttatgtata gatgaaagta 240  
tgatttat aaccttgcca tacaataggg acccattaat tactgaagta attaatgttt 300  
tttgagatgt ctataatatg ttgcagttgg tgaagatttt agaaagtttt atttcggccg 360  
ggtgtggcgt ttcatgcctg taatccagca cttggggagg ctgaggcggg tggatcaccg 420  
gaggtctgga gatcaagatc agccgggcca acatgggtgg aaacccatc tggactaaa 480  
aatgacaaaa aaattagcgg ggggtggggg caggtgcct gtaatccan gtacttcggg 540  
aggctgagggc agggaaatgg ctggAACCCG ggaggcagg 579

<210> 152  
<211> 882  
<212> DNA  
<213> Homo sapiens

<400> 152  
ccccattatc agttggttct cagactctac cctagtgtcc agaacagtga tcaacacaga 60  
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atcaagttagt aggtgccag gcaaaggccc acccctagta acagctgctt gcattgtcag 180  
agggagtgcc cgaggaggtg ggagctctcg ggggtcacta gggggcgctg tgactatgac 240  
tggatgccgt gttcttcctg caaggatgtg aggactcagt ctcaggcagg tgacaggagt 300  
ggagcaatga acgccaagac acagctcctg ctctcctggc gcttacactc tggcgtcag 360  
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gagaccgccc cagccatcct ctgctctgtg cccacccaca tgactcagaa ctttgatccc 480  
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gctcctactt tacccctgt tccagctcac gaagctttct ctggctctcc agccaaagtt 600  
cattgctgcc ctctccacgc actcctgctc tacacagctc cgctgcacgc ataagtccaa 660  
gctagtggt gtctcccttt atccagacaa gactcctcag ggcgctgacc aggtcttagt 720  
tatcctagcg tctcccaagc tggccctgc ttgtgcgtac caggtatctg aaaaatggct 780  
gctggaacaa aacagaggcc ggtcaagtgg aggagattaa ggttaataag tgacttcgtg 840  
gagaaagtct aacatcaggt gagtggcctg cacggcgtt ca 882

<210> 153  
<211> 2075  
<212> DNA  
<213> Homo sapiens

<400> 153  
atggagaatc tcaaagcatt cattgttatta agtggaaagaa gccagacacc aaagactata 60  
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cagtggggcc caggggctgg aggaacatgg gtggagctag aggccattat ccttagcaag 180

ctgacacagg aacagaaaaac caaactaagt gggagccaaa taagaagaat atatggacac 240  
aaagagggga acaacagaca ctggggactg cctgaggatg gagggcagga ggagggagag 300  
gatcagaaaa ataactatca gagttgttg ggagaaccaa gaggtcgtgg ggagagctgg 360  
caggaagtgg ctggcagac cttagaatgt agtaatggg aagctatgttgc 420  
agcattcagc cgaatctgga tctggaccc tccttctgg gtctccatgg ggatcaggaa 480  
gtcaagaaca gtggttcttc ctcagtcctt ctggggctgg ggtcagcatc tggcgttgc 540  
gtgttagata agcctggca tggcagagat ggcgagatac ccaacaaaac atttgtgacc 600  
tctcagcatt tccggagtga ggagttgtca cttggaggc acggtgtaga acaacacccc 660  
tccacccat taactgttag gacatataaa acagaacaca gtgaagtgtc aatggttgaa 720  
aaggacagta ccacatttc cctacttagt ttccctgtca tctctaggag ggtcccttcta 780  
gggatttcca cttactggaa tcacttaggg atgcccgtg atgcaggac caccatctca 840  
aacattgtt gttccatcg agaagataag aatgagaaag gtgatcttca gttccatcct 900  
ctggcgttag aacccaaact aggagctgaa atggctctca cagattccca aggagcagat 960  
gtccctcaga gagttggact ttcttataat aactgtatca ggcagggttc aagtgattct 1020  
cctgcctcaa cctcccaagt agctgggatt ataggtgtgt gccaccacac ccggctaatt 1080  
ttttagttt tagtagagac ggggttcac catgttggcc aggctggctc cgaactcctg 1140  
acctcaagtg atccacccac ctcggcctcc caaactgctg gaattacagg tgtgagccac 1200  
cgtgcaggc cactcacctg atgttagact ttctccacga agtcaacttat taaccttaat 1260  
ctcctccact tgacccgct ctgtttgtt ccagcagcca ttttcagat acctggtag 1320  
cacaaggcagg gcccagcttggagacgcta ggataactaa gacctggtca gcgcctgag 1380  
gagtctgtc tggataaaagg gagacacaca cttagttggaa cttatgcgtg cagcggagct 1440  
gttagagca ggagtgcgtg gagagggcag caatgaactt tggctggaga gccagagaaa 1500  
gcttcgttag ctggaacacg gggtaaagta ggagcttcc agggcggagg ggacttctga 1560  
agtggaggaa actgcctgtt caggacatgg agtagggat caaagtctg agtcatgtgg 1620  
gtggcacaag agcagaggat ggctggggcg gtctcaggaa taaggagaag tttggggacc 1680  
agactgtttt gtcaccgtat ctgcatttcgc cagcctgca cgccagagtg taagcgccag 1740  
gagagcagga gctgtgtt ggcgttcatt gtcactcc tgcacactgc ctgagactga 1800  
gtcctcacat cttgcagga agaacacggc atccagtcat agtcacagcg ccccttagtg 1860  
accccgaga gctccacact ctcgggacac tccctctgca catgcaagca gctgttacta 1920  
gggtggccc tttgcctggc atcctctcac ttgatgtcta tccctccctg agaggatgtt 1980  
cacttcaggc caacaaaccc ttattaaata cttgctctgt gttgatcaact gttctggaca 2040  
ctaggtaga gtctgagaac caactgataa tgggg 2075

<210> 154  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 154  
Met Tyr Trp Ile Asn Leu Ala Phe Ile His Gln Ile Val Ser Asn Ser  
1 5 10 15

Ser Phe Pro Pro Ser Gln Thr Asn Glu Ala Lys Pro Asn Lys Cys Thr  
20 25 30

Leu Leu Leu Arg Ser Lys  
35

<210> 155

<211> 27

<212> PRT

<213> Homo sapiens

<400> 155

Met Gly Leu Ala Ala Thr Ala Thr Asn Ile Leu Ile Val Ser Asn Thr  
1 5 10 15

Leu Leu Gly Ile Ile Arg Gln Lys Trp Arg Gly

20 25

<210> 156

<211> 42

<212> PRT

<213> Homo sapiens

<400> 156

Met Ala Cys Arg Gly Gly Thr Ile Asp Ile Thr Met Leu Lys Gly Trp  
1 5 10 15

Pro Trp Leu Val Val Ser Lys Trp Arg Gly Glu Leu Val Leu Pro Trp  
20 25 30

Leu Leu Trp Val Ser Pro Tyr Thr Ser Phe

35 40

<210> 157

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (75)

<400> 157

Met Arg Pro Thr Pro Cys Pro Met Trp Lys Ala Lys Ser Pro Pro Arg  
1 5 10 15

Asp Trp Val Ser Ala Val Arg Glu Leu His Glu Leu Glu Gly Lys Gln  
20 25 30

Thr Glu Arg Ser Gly His Trp Ala Val Ser Arg Leu Pro Ala Pro Arg

35

40

45

Thr Glu Gln Thr Val Thr Arg Thr Ala Asn Lys Ala Arg Arg Glu Ala  
50 55 60

Leu Lys Gly Gly Gln Ser Gly Arg Ala Leu Xaa Leu Thr  
65 70 75

<210> 158

<211> 39

<212> PRT

<213> Homo sapiens

<400> 158

Thr Leu Cys Cys Pro Gly Ala Ser Ala Thr Val Arg Ser Arg Ile Thr  
1 5 10 15

Ala Ala Ser Asn Ser Trp Leu Gln Ala Leu Leu Leu Pro Arg Pro Pro  
20 25 30

Glu Ala Leu Gly Leu Gln Ala  
35

<210> 159

<211> 72

<212> PRT

<213> Homo sapiens

<400> 159

Met Ser Leu Arg Ala Val Val Glu Ala Ala Val Val Ala Val Val Gly  
1 5 10 15

Ala Ala Val Val Ala Val Val Ala Ala Ala Val Val Ser Ala Ser Gly  
20 25 30

Ala Ser Ser Ser Ala Gly Pro Val Ala Gly Tyr Val Ser Ala Gly Ala  
35 40 45

Ala Val Val Gly Phe Ser Glu Cys Thr Lys His Pro Val Cys Phe Gln  
50 55 60

Ser Phe Phe Ser Val Phe Ser Leu  
65 70

<210> 160

<211> 75  
<212> PRT  
<213> Homo sapiens

<400> 160  
Met Lys Phe Leu Ala Val Leu Val Leu Leu Gly Val Ser Ile Phe Leu  
1 5 10 15  
  
Val Ser Ala Gln Asn Pro Thr Thr Ala Ala Pro Ala Asp Thr Tyr Pro  
20 25 30  
  
Ala Thr Gly Pro Ala Asp Asp Glu Ala Pro Asp Ala Glu Thr Thr Ala  
35 40 45  
  
Ala Ala Thr Thr Ala Thr Thr Ala Ala Pro Thr Thr Ala Thr Thr Ala  
50 55 60  
  
Ala Ser Thr Thr Ala Arg Lys Thr Phe Gln Phe  
65 70 75

<210> 161  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 161  
Met Glu Arg Gln Ile Asn Ser Asn Asn Leu Gln Ser Asp Thr Ile Arg  
1 5 10 15  
  
Phe Ala Phe Trp Asp Gln Ala Trp Trp Leu Thr  
20 25

<210> 162  
<211> 103  
<212> PRT  
<213> Homo sapiens

<400> 162  
Leu Ser Leu Phe Phe Cys Leu Phe Phe Leu Arg Arg Ser Leu Pro Leu  
1 5 10 15  
  
Leu Pro Arg Leu Glu Cys Ser Gly Ala Ile Ser Ala Pro Cys Asn Leu  
20 25 30  
  
Arg Leu Pro Gly Ser Asn Gly Ser Pro Ala Ser Ala Ser Ala Val Ala  
35 40 45

Gly Ile Thr Gly Arg Asp Tyr Asn Ala Gln Leu Phe Phe Val Phe Leu  
50 55 60

Val Glu Thr Gly Phe His Tyr Val Gly Gln Ala Gly Leu Lys Leu Leu  
65 70 75 80

Thr Cys Asp Pro Pro Ala Ser Ala Ser Gln Cys Ala Gly Ile Thr Gly  
85 90 95

Val Ser His His Ala Trp Pro  
100

<210> 163

<211> 43

<212> PRT

<213> Homo sapiens

<400> 163

Met Ala Ser Phe Ser Asp Ser Phe Gly Asn Phe Phe Leu Ser Cys Met  
1 5 10 15

Phe Leu Ser Ile Trp Ser Leu Asn Tyr Ile Cys Val Val Phe Phe Lys  
20 25 30

Trp Ser Phe Ser Tyr Tyr Met Phe His Ser Lys  
35 40

<210> 164

<211> 27

<212> PRT

<213> Homo sapiens

<400> 164

Met Asp Ile Lys Tyr Lys Thr Ser Phe Ser Tyr Ser Leu Met Phe Leu  
1 5 10 15

Trp Leu Ser Phe Pro Leu Lys Gly Trp Phe Cys  
20 25

<210> 165

<211> 85

<212> PRT

<213> Homo sapiens

<400> 165

Met Arg Pro Leu Cys Arg Thr Thr Lys Val Ile Leu Asn Leu Asn Leu  
1 5 10 15

Gly Val Asn Val Gly Thr Glu Gly Phe Lys Phe Glu Val His Cys Asn  
20 25 30

Ile Gln Gly Leu Pro Ala Tyr Ser Trp His Gly Trp Lys Asp Ala Thr  
35 40 45

Ser Ile Phe Thr Thr Leu Ile Lys Ala Ser Met Ser Gly Glu His Lys  
50 55 60

Met Gln Asn Asn Gly Cys Thr Thr Gly Asn Gly Gln Cys Lys Gly  
65 70 75 80

Thr Pro Ser Phe Glu  
85

<210> 166

<211> 51

<212> PRT

<213> Homo sapiens

<400> 166

Met Ala Pro Ala Ser Arg Glu Gly His Ile Thr Arg Gln Asp Asp His  
1 5 10 15

Ser Tyr Gln Ser Ala Trp Leu Trp Asp Pro Leu Met Met Arg Cys Asn  
20 25 30

Pro Asp Leu Ile Ala Glu Ala Thr Gly Pro Lys Asp Cys Ser Phe Leu  
35 40 45

Leu Gly Cys  
50

<210> 167

<211> 144

<212> PRT

<213> Homo sapiens

<400> 167

Met Cys Gly Leu Ser Arg Gly Ile His Ser Leu Gly Arg Glu Thr Leu  
1 5 10 15

Lys Ala Gly Leu Val Pro Thr Ala Gly Asp Glu Leu Val Glu Gly Leu  
20 25 30

Glu Arg His Ser Ser Gly Cys Thr Gly Gly Cys Gly Ala His Arg Ile  
35 40 45

Gln Gln Arg Arg Thr Gly Ala Ala Arg Glu Gly Phe Trp Glu Glu Leu  
50 55 60

Glu Thr Gln Thr Gly Gln Arg Leu Ala Gly Met Trp Trp Gly Thr Gly  
65 70 75 80

Gly Leu Ser Leu Val Glu Glu Thr Thr Ala Lys Val Glu Asn Pro  
85 90 95

Trp Arg Arg Ser Leu Thr Trp Pro Glu Gln Arg Glu Glu Glu Gly Gln  
100 105 110

His Ser Glu Pro Gly Pro Gln Gly Thr Gly Ala Pro Trp Asn Leu Trp  
115 120 125

Pro Lys Met Arg Asp Ala Thr Lys Gly Glu Phe Tyr Phe Asp Glu Glu  
130 135 140

<210> 168  
<211> 44  
<212> PRT  
<213> Homo sapiens

<220>  
<221> UNSURE  
<222> (21)..(36)  
<223> a, c, g or t

<400> 168  
Met Trp Ala Ala Ile Cys Ile Ile Phe Val Ile Gln Lys Arg Asp Ile  
1 5 10 15

Lys Leu Lys Ile Xaa  
20 25 30

Xaa Xaa Xaa Xaa Ile His Leu Phe Arg Trp Glu Cys  
35 40

<210> 169

<211> 52

<212> PRT

<213> Homo sapiens

<400> 169

Met Asn Leu Phe Leu Cys Lys Ser Val Lys Tyr Ser Leu Asn Thr Cys  
1 5 10 15

Val Pro Gln Leu Gly Leu Glu Asn Ala Lys Thr Val Met Ser Ala Glu  
20 25 30

Phe Leu Cys Tyr Lys Val Ser Trp Val Arg His Pro Tyr Arg Ile Glu  
35 40 45

Thr Thr Arg Lys

50

<210> 170

<211> 73

<212> PRT

<213> Homo sapiens

<400> 170

Met Cys Phe Ser Gln Ser Trp Gln Lys Gln Leu Thr Ile Leu Val Leu  
1 5 10 15

Thr Val Asn Arg Val Pro Lys Arg Val Tyr Arg Thr Gly Thr His Phe  
20 25 30

Gly Asp Cys Cys Pro Lys Ala Leu Ser Phe Leu Phe Thr His Phe Gly  
35 40 45

Val Leu Leu Trp Phe Leu Phe Gln Lys Ile Phe Leu Ser Phe Ile Ile  
50 55 60

Leu Phe Leu Ser Ser Val Met Ser Ser

65

70

<210> 171

<211> 58

<212> PRT

<213> Homo sapiens

<400> 171

Met Leu Arg Arg Tyr Met Pro Phe Ser Leu Ser Phe Ala His Lys Cys  
1 5 10 15

Thr Val Glu Phe Gly His Ser Ile Lys Glu Arg Ile Tyr Gly Leu Ser  
20 25 30

Pro Arg Ala Asn Lys Ile Leu Phe Ala Phe Gln Leu Pro Ile Ser Met  
35 40 45

Ser Phe His Phe Leu His Met Leu Leu Pro  
50 55

<210> 172

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (2)

<220>

<221> UNSURE

<222> (4) .. (5)

<400> 172

Met Xaa Ser Xaa Xaa Leu Asn Leu Gly Leu Ile Gly Ser Leu Thr Tyr  
1 5 10 15

Arg Leu Ser Trp Lys Met Ser His Val Tyr Leu Gly Arg Met Cys Ile  
20 25 30

Leu Leu Leu Leu Gly Thr Val Phe Cys Val Pro Trp  
35 40

<210> 173

<211> 24

<212> PRT

<213> Homo sapiens

<400> 173

Met Asp Leu Glu Ile Leu Thr Phe Ile Lys Glu Asn Ser Ser Leu Val  
1 5 10 15

Glu Thr Ser Leu Glu Arg Pro Lys  
20

<210> 174  
<211> 69  
<212> PRT  
<213> Homo sapiens

<220>  
<221> UNSURE  
<222> (26)

<220>  
<221> UNSURE  
<222> (68)

<400> 174  
Met Pro Val Lys Leu Leu Ser Tyr Ser Leu Pro Val Gly Gly Ser Gln  
1 5 10 15

Cys Glu Val Trp Ser Pro Gly Thr Arg Xaa Thr Trp Ala His Ser Leu  
20 25 30

His Thr Gly Ala Gly Lys Gly Gln Arg Glu Leu Gln Thr Gly Lys Trp  
35 40 45

Met Val Trp Gly Arg Ser Pro Ala Pro Val Thr Ser Cys Glu Ser Leu  
50 55 60

Ser Gln Thr Xaa Gly  
65

<210> 175  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 175  
Met Leu Pro Asn Ile Asp Ile Asp Ser Leu Gly Glu Ile Leu Ser Lys  
1 5 10 15

Tyr Lys Ile Leu His Val Gln Gln Leu Asn Val Ile Asn Glu Phe His  
20 25 30

Ile Tyr Leu His Asp Ile Phe Glu Ile Lys Leu Ile Ile Leu Leu  
35 40 45

<210> 176  
<211> 66  
<212> PRT  
<213> Homo sapiens

<400> 176  
Met Leu Thr Lys Ser Ser His Tyr Leu Phe His Gly Thr Val Glu Ile  
1 5 10 15  
  
Arg His Pro Lys Val Ser Lys Thr Phe Lys Gln Gln Arg Leu Pro Met  
20 25 30  
  
Gln Gly Ile His Trp Gly Lys Gly Ala Gln Val Leu Pro Leu Leu  
35 40 45  
  
Cys Asn Met Lys Pro Val Thr Lys Thr Ala Gly Glu Ser Leu Tyr Phe  
50 55 60  
  
Thr Leu  
65

<210> 177  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 177  
Phe Phe Phe Leu Ala Arg Trp Gly Leu Ile Met Leu Pro Arg Leu  
1 5 10 15  
  
Val Ser Asn Ser Trp Ala Gln Ala Ile Leu Leu Pro Arg Pro Pro Lys  
20 25 30  
  
Met Leu Gly Phe Glu Ala Ala Ala Thr Thr Pro Ser Asp Lys Ser Leu  
35 40 45  
  
Phe Phe Lys Ile Ile His Tyr Pro  
50 55

<210> 178  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 178  
Met Ile Ser Gly Asn Glu Glu Leu Asp Phe Ser Leu Glu Phe Ala Ser

1                    5                    10                    15

Thr Leu Leu Trp Gln Ile Ser Val Gly Ser Leu Ser Thr Leu Ser Ala  
20                    25                    30

Arg Gly Asn Leu Phe Tyr Gln Thr Gly Cys  
35                    40

<210> 179  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 179

Met Tyr Gln Tyr Phe Ile Thr His Gly Val Leu Lys Ile Gln Phe Lys  
1                    5                    10                    15

Asn Thr Val Phe His Met Ser Tyr Lys Val Leu Glu Lys Lys Phe  
20                    25                    30

<210> 180  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 180

Met Leu Val Met Thr Ile Phe Thr Asn Thr Thr Ser Tyr His Tyr Pro  
1                    5                    10                    15

Leu Lys Leu Thr Val Leu Glu Lys His Ser Asn Trp Asp Ser Ser Ile  
20                    25                    30

Lys Gly Asn Leu Val Phe  
35

<210> 181  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 181

Met Arg Pro Tyr Glu Arg Thr Pro Ser Asn Ser Pro Pro Gln Tyr Lys  
1                    5                    10                    15

Pro Leu Ile Leu

<210> 182

<211> 68

<212> PRT

<213> Homo sapiens

<400> 182

Met Pro Lys Arg Leu Thr Gln Ile Lys Gly Pro Met Asn Asp Gly Cys  
1 5 10 15

Tyr Cys Ser Tyr Cys Tyr Asp Phe Ala Thr Phe Leu Thr Tyr Pro Ser  
20 25 30

Leu Asn Ile Leu Cys Ser Met Ala Ile Pro Arg Asp Gly Ile Lys Thr  
35 40 45

Lys Glu Lys Leu Ser Phe Ser Thr Ser Asn Phe Ser Ser Ser Lys Ala  
50 55 60

Tyr Val Gly Pro

65

<210> 183

<211> 115

<212> PRT

<213> Homo sapiens

<400> 183

Ser Phe Phe Phe Phe Phe Glu Thr Arg Ser Cys Phe Val Ala Arg  
1 5 10 15

Ala Gly Glu Arg Trp Tyr Asp His Gly Ser Leu Ala Pro Leu Pro Pro  
20 25 30

Arg Leu Lys Gln Ser Ser His Leu Ser Leu Ala Gly Thr Trp Asp Tyr  
35 40 45

Arg Tyr Lys Cys His Cys Ala Gln Leu Ile Phe Val Phe Phe Cys Glu  
50 55 60

Thr Gly Phe His His Val Ala Gln Ala Gly Leu Lys Phe Leu Gly Ser  
65 70 75 80

Ser Asn Pro Pro Ala Ser Thr Ser Gln Ser Pro Gly Ile Thr Gly Met  
85 90 95

Ser His His Thr Cys Ser Ser Phe Leu Leu Phe Ala Ile Gln His Leu  
100 105 110

Leu Gln Tyr  
115

<210> 184  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 184  
Met Trp Met Cys Ile Leu Ser Gly Ser Met Ile Phe Pro Gly Pro Glu  
1 5 10 15

Cys Asp Arg Ser Gly Pro Ala Ile Glu Leu Gln Ala His Arg Pro Ala  
20 25 30

Ala Ala Leu Gly Cys Ile Ala Arg Leu Leu Ser Ser Cys Leu Val His  
35 40 45

Met Met Pro Gly Leu  
50

<210> 185  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 185  
Met Lys Asn Lys Met Thr Leu Leu His Ile Lys Leu Leu Phe Ile Trp  
1 5 10 15

Lys Asn Gln Cys Cys Phe Lys Val Ala Cys Ser Thr Ser Ser Leu Thr  
20 25 30

Tyr Thr Lys Thr  
35

<210> 186  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 186  
Met Thr Thr Val Leu Ile Asn Val Gly Tyr Gln Lys Ile Pro Arg Ser  
1 5 10 15

His Leu Trp Cys Thr Leu Asn  
20

<210> 187

<211> 57

<212> PRT

<213> Homo sapiens

<400> 187

Met Gln Arg Asn Thr Pro Arg Thr Gly Glu Ser Glu Ser Met Ser Val  
1 5 10 15

Thr Arg Ile Asn Ala Asp Glu Ala Glu Thr Arg Asn Ile Lys Phe Arg  
20 25 30

Ile Ala Ser Ser Arg Arg Ile Lys Val Ile Phe Val Ile Lys Leu Lys  
35 40 45

His Lys Gln Ile Glu His Cys Ile Val  
50 55

<210> 188

<211> 23

<212> PRT

<213> Homo sapiens

<400> 188

Met Asn Cys Arg Arg Thr Arg Trp Arg Ser Val Val Tyr Ser Trp Asp  
1 5 10 15

Leu Ser Leu Val Leu Ala Cys  
20

<210> 189

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (9)...(10)

<220>

<221> UNSURE

<222> (18)

<220>

<221> UNSURE

<222> (26)

<400> 189

Met Met Thr Ala Phe Thr Ser Cys Xaa Xaa Thr Lys Tyr Lys Asn Gln  
1 5 10 15

Lys Xaa Ile Asn Asn Gly Asp Phe Met Xaa His Lys Leu Ile Arg Tyr  
20 25 30

Leu Met Leu Cys Leu Val Ala Val  
35 40

<210> 190

<211> 70

<212> PRT

<213> Homo sapiens

<400> 190

Met Asn Asp Gln Thr Cys Gly Leu Pro Cys Ser Ala Val Ser Glu Arg  
1 5 10 15

Leu Asp Pro Gln Pro Arg Thr Gly Pro Leu Ser Gly Met His Gln Arg  
20 25 30

Arg Asn Trp Arg His Thr Gly Ala Gly Ala Ala Pro Gly Leu Arg Ala  
35 40 45

Phe Pro Ala Leu Ser Val Tyr Pro Arg Met Glu Met Phe Thr Phe Leu  
50 55 60

Phe Phe Thr Leu Asn Met  
65 70

<210> 191

<211> 54

<212> PRT

<213> Homo sapiens

<400> 191

Met Leu Val Glu Cys Leu Val Asn Asn Glu Ser Tyr Ser Leu Trp Ser  
1 5 10 15

Gln Gly Ser His Lys Pro Thr Gly Gln Ile Leu Cys Ile Leu Val Ser  
20 25 30

Tyr Met Thr Ser Lys Phe Met Asn Leu Leu Asn Ser Phe His Thr Thr  
35 40 45

Gln Asp Ala Ser Phe Trp  
50

<210> 192

<211> 78

<212> PRT

<213> Homo sapiens

<400> 192

Gln Ala Gly Val Gln Trp Cys Asp Leu Gly Ser Leu Gln Pro Pro Pro  
1 5 10 15

Ser Gly Phe Lys Gln Phe Ser Tyr Leu Ser Leu Pro Ser Ser Trp Asp  
20 25 30

Tyr Arg Arg Val Pro Pro Arg Pro Ala Asn Phe Ala Ile Phe Ser Arg  
35 40 45

Asp Arg Val Ser Pro His Trp Leu Gly Trp Ser Arg Thr Pro Gly Leu  
50 55 60

Val Phe His Leu Pro Gln Pro Pro Lys Met Leu Gly Leu Gln  
65 70 75

<210> 193

<211> 125

<212> PRT

<213> Homo sapiens

<400> 193

Met Ser Asp Gly Arg Asp Leu Gly Arg Gln Pro Pro Leu Ile Leu His  
1 5 10 15

His Gln Pro Gly Leu Gly Thr Trp Leu Leu Phe Leu Ser Ala Val Ser  
20 25 30

Gly Gly Pro Trp Pro Thr His Lys Pro Phe Cys Gln His Leu Ala Phe

35

40

45

Gln Leu Thr Ser Thr Gln Gly Leu Cys Asp Phe Arg Arg Arg Gln Leu  
50 55 60

Gly Arg Val Arg Ala Val Pro Gly Arg Ala Gln Thr Ser Ala Gln Thr  
65 70 75 80

Ser Tyr Pro Pro Pro Thr Pro Arg Pro Arg Gly Phe Gln Ser Asn Gln  
85 90 95

His His Gln Ala Pro Gly His Trp Lys Lys Asn Leu Cys Lys Glu Ala  
100 105 110

Arg Gly His Leu Arg Lys Ser Arg Ser Pro Lys Leu Met  
115 120 125

<210> 194

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (6)...(35)

<400> 194

Met Ala Glu His Thr Xaa  
1 5 10 15

Xaa  
20 25 30

Xaa Xaa Xaa Ile Gln Ser Ile Phe Phe Asp His Met Arg Ile Lys Ile  
35 40 45

Gly Asn Ser His Arg Asn Ile Ser Glu Ile Ser Leu Asn Ile His Lys  
50 55 60

Leu Asn Ser Thr Phe Gln Asp Gln Lys Glu Ile Lys Arg Glu Ile Arg  
65 70 75 80

Lys Tyr Ile Glu Gln Asn Gln Asn Glu Asn Val Arg Ile Cys Gly Val  
85 90 95

Thr Pro Lys Asn Val Cys Arg Lys Lys Gln His Lys Met Pro Asn Leu  
100 105 110

Lys Lys Lys Asn Leu Asn Ser Val Thr Trp Ser  
115 120

<210> 195  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 195  
Met Phe Val Leu Asn Thr Ile Leu Ile Asp Ile Tyr Cys Pro Leu His  
1 5 10 15  
  
Thr Cys Glu His Ile Phe Val Phe Glu Tyr Arg Tyr Leu Leu Asn Lys  
20 25 30

Ile

<210> 196  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 196  
Met His Phe Gln Arg Arg Lys Asn Glu Asn Leu Ser Phe Lys Met Tyr  
1 5 10 15  
  
Ser Val Met Leu Asn Val Tyr Gly Leu Lys  
20 25

<210> 197  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 197  
Met Thr Ser Gln Pro Ile Pro Arg Thr Pro Ser Asn Thr Leu Gln Phe  
1 5 10 15  
  
Ala Ile Cys Val Glu Val Arg Arg Leu Val Ile His Lys Ile Thr  
20 25 30

<210> 198

<211> 22  
<212> PRT  
<213> Homo sapiens

<220>  
<221> UNSURE  
<222> (17)

<400> 198  
Met Lys Leu Ile Ser Gln Lys Ile Ser Ile Lys His Leu Leu Tyr Gly  
1 5 10 15

Xaa Asn Thr Ala Thr His  
20

<210> 199  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 199  
Met Arg Val Leu Pro Pro Val Phe Ser Ala Pro Lys Cys Ser Asn Glu  
1 5 10 15

Lys Pro Met Lys Ser Lys Tyr Ile Ile Tyr Met Leu Lys Tyr Phe Val  
20 25 30

Ile Ile Lys His  
35

<210> 200  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 200  
Met Leu Leu Tyr Cys Leu His Ile Lys Leu Trp Ala Tyr Phe Cys Val  
1 5 10 15

Phe Glu Leu Gly Val His Pro Thr His His Val His Phe Gly Tyr Thr  
20 25 30

Lys Val Phe Thr Leu Pro Ile Ser Arg Glu His Tyr Thr Cys Asn Arg  
35 40 45

Leu

<210> 201

<211> 16

<212> PRT

<213> Homo sapiens

<400> 201

Met Cys Lys Cys Gly Lys Val Pro Leu Glu Asn Leu Ile Arg Val Val  
1 5 10 15

<210> 202

<211> 222

<212> PRT

<213> Homo sapiens

<400> 202

Met Glu Val Thr Pro Gly Glu Lys Ile Leu Arg Asn Thr Lys Glu Gln  
1 5 10 15

Arg Asp Leu His Asn Arg Leu Arg Glu Ile Asp Glu Lys Leu Lys Met  
20 25 30

Met Lys Glu Asn Val Leu Glu Ser Thr Ser Arg Leu Ser Glu Glu Gln  
35 40 45

Leu Lys Cys Leu Leu Asp Glu Cys Ile Leu Lys Gln Lys Ser Ile Ile  
50 55 60

Lys Leu Ser Ser Glu Arg Lys Lys Glu Asp Ile Glu Asp Val Thr Pro  
65 70 75 80

Val Phe Pro Gln Leu Ser Arg Ser Ile Ile Ser Lys Leu Leu Asn Glu  
85 90 95

Ser Glu Thr Lys Val Gln Lys Thr Glu Val Glu Asp Ala Asp Met Leu  
100 105 110

Glu Ser Glu Glu Cys Glu Ala Ser Lys Gly Tyr Tyr Leu Thr Lys Ala  
115 120 125

Leu Thr Gly His Asn Met Ser Glu Ala Leu Val Thr Glu Ala Glu Asn  
130 135 140

Met Lys Cys Leu Gln Phe Ser Lys Asp Val Ile Ile Ser Asp Thr Lys  
145 150 155 160

100

Asp Tyr Phe Met Ser Lys Thr Leu Gly Ile Gly Arg Leu Lys Arg Pro  
165 170 175

Ser Phe Leu Asp Asp Pro Leu Tyr Gly Ile Ser Val Ser Leu Ser Ser  
180 185 190

Glu Asp Gln His Leu Lys Leu Ser Ser Pro Glu Asn Thr Ile Ala Asp  
195 200 205

Glu Gln Glu Thr Lys Asp Ala Ala Glu Glu Cys Lys Glu Pro  
210 215 220

<210> 203

<211> 55

<212> PRT

<213> Homo sapiens

<400> 203

Met Val Cys Asp Phe Arg Asp Gln Ile Ile Asn Gly Ile Val Ala Ser  
1 5 10 15

Ala Leu Phe Ser Leu Leu Cys His Ser Leu Trp Gly Lys Ser Ala Asp  
20 25 30

Thr Arg Glu Asp Ala Gln Val Ala Leu Trp Arg Gly Pro Arg Gly Asp  
35 40 45

Gly Leu Arg Leu Ser Pro Ala  
50 55

<210> 204

<211> 62

<212> PRT

<213> Homo sapiens

<400> 204

Met Leu Pro Gly Ser Pro Ala Gly Glu Ala Val Ala Gly Trp Gly Val  
1 5 10 15

Ala Pro Cys Gln Leu Pro Trp Ala Trp Asp Cys Arg Gln Pro Pro Pro  
20 25 30

Gly Gly Gly Trp Arg Glu Ala Arg Val Arg Arg Val Arg Lys Ala Ser  
35 40 45

Pro Ala Leu Gly Ser Gly Lys Gly Pro Glu Glu Pro Gly Arg  
50 55 60

<210> 205  
<211> 330  
<212> PRT  
<213> Homo sapiens

<400> 205  
Asn Cys His Arg Met Lys Pro Ala Leu Phe Ser Val Leu Cys Glu Ile  
1 5 10 15

Lys Glu Lys Thr Val Val Ser Ile Arg Gly Ile Gln Asp Glu Asp Pro  
20 25 30

Pro Asp Ala Gln Leu Leu Arg Leu Asp Asn Met Leu Leu Ala Glu Gly  
35 40 45

Val Cys Arg Pro Glu Lys Arg Gly Arg Gly Gly Ala Val Ala Arg Ala  
50 55 60

Gly Thr Ala Thr Pro Gly Gly Cys Pro Asn Asp Asn Ser Ile Glu His  
65 70 75 80

Ser Asp Tyr Arg Ala Lys Leu Ser Gln Ile Arg Gln Ile Tyr His Ser  
85 90 95

Glu Leu Glu Lys Tyr Glu Gln Ala Cys Arg Glu Phe Thr Thr His Val  
100 105 110

Thr Asn Leu Leu Gln Glu Gln Ser Arg Met Arg Pro Val Ser Pro Lys  
115 120 125

Glu Ile Glu Arg Met Val Gly Ala Ile His Gly Lys Phe Ser Ala Ile  
130 135 140

Gln Met Gln Leu Lys Gln Ser Thr Cys Glu Ala Val Met Thr Leu Arg  
145 150 155 160

Ser Arg Leu Leu Asp Ala Arg Arg Lys Arg Arg Asn Phe Ser Lys Gln  
165 170 175

Ala Thr Glu Val Leu Asn Glu Tyr Phe Tyr Ser His Leu Asn Asn Pro  
180 185 190

Tyr Pro Ser Glu Glu Ala Lys Glu Glu Leu Ala Arg Lys Gly Gly Leu  
195 200 205

Thr Ile Ser Gln Val Ser Asn Trp Phe Gly Asn Lys Arg Ile Arg Tyr  
210 215 220

Lys Lys Asn Met Gly Lys Phe Gln Glu Ala Thr Ile Tyr Thr Gly  
225 230 235 240

Lys Thr Ala Val Asp Thr Thr Glu Val Gly Val Pro Gly Asn His Ala  
245 250 255

Ser Cys Leu Ser Thr Pro Ser Ser Gly Ser Ser Gly Pro Phe Pro Leu  
260 265 270

Pro Ser Ala Gly Asp Ala Phe Leu Thr Leu Arg Thr Leu Ala Ser Leu  
275 280 285

Gln Pro Pro Pro Gly Gly Cys Leu Gln Ser Gln Ala Gln Gly Ser  
290 295 300

Trp Gln Gly Ala Thr Pro Gln Pro Ala Thr Ala Ser Pro Ala Gly Asp  
305 310 315 320

Pro Gly Ser Ile Asn Ser Ser Thr Ser Asn  
325 330

<210> 206

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (3) .. (5)

<220>

<221> UNSURE

<222> (12)

<220>

<221> UNSURE

<222> (17)

<220>

<221> UNSURE

<222> (28)

<400> 206

Met Asn Xaa Xaa Xaa Thr Ala Met Leu Ile Ser Xaa Glu Gly Lys Asn  
1 5 10 15

Xaa Gln Gly Asn Cys Lys Lys His Asn Tyr Arg Xaa Tyr Thr Ile Met  
20 25 30

Met Ile Thr Ile His Ala Leu Gln Asn His Arg Tyr Ile Tyr Ile Leu  
35 40 45

Leu Lys Ile His Gln Leu His Trp Ser Ser Thr Tyr Tyr Val Glu Arg  
50 55 60

Lys Tyr Leu Arg Lys Phe Lys Leu  
65 70

<210> 207

<211> 62

<212> PRT

<213> Homo sapiens

<400> 207

Met Tyr Ala Leu Ser Val Arg Ala Leu Ser Met Val Thr Ala Leu His  
1 5 10 15

Asp Val Ser Gly His Tyr Ser Asp Gln Lys Lys Gly Gln Tyr Val Leu  
20 25 30

Lys Gly Cys Glu Glu Val Ser Val Ser Trp Cys Thr Trp Thr Arg Glu  
35 40 45

Pro Leu Ile Pro Phe Val Ala Ser Arg His Leu Val Thr Thr  
50 55 60

<210> 208

<211> 34

<212> PRT

<213> Homo sapiens

<400> 208

Met Thr Gly Phe Leu Leu Cys Ser Ser Gln Leu Asn Phe Phe Phe Lys  
1 5 10 15

Ile Leu Phe Cys Lys Ser Phe Leu Arg Ser Pro Cys Lys Pro Phe Ala  
20 25 30

Gln Ser

<210> 209

<211> 93

<212> PRT

<213> Homo sapiens

<400> 209

Met Pro His Glu Gly Gly Asp Leu Arg Leu Ser Leu Gly Arg Glu Ala  
1 5 10 15

Lys Lys Arg Cys Gln Ala Ala His Gly Gln Arg Cys Ser Cys His Thr  
20 25 30

Glu Phe Ser Val Leu Gly Ile Phe Val Thr Lys Ile Ala Glu Asp Ser  
35 40 45

Gly Ser Tyr Val Ala Cys Thr Arg Gly Ala Pro Ala Pro Thr Val Pro  
50 55 60

Ala Gly Pro Leu Lys Ser Ala Ser Leu Leu Ala Glu Pro Ser Val Ala  
65 70 75 80

Pro Trp Trp Pro Arg Arg Ser Pro Asp Leu Ala Glu Ser  
85 90

<210> 210

<211> 41

<212> PRT

<213> Homo sapiens

<400> 210

Phe Phe Ala Asp Thr Arg Ser His Ser Val Ala Ala Ala Gly Val Gln  
1 5 10 15

Trp His Asp Tyr Ser Ser Leu Ala Pro Gln Thr Pro Gly Leu Lys Gln  
20 25 30

Ser Ser Cys Leu Ser Pro Leu Ser Ser  
35 40

<210> 211

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (63)...(81)

<400> 211

Met Gln Pro Gly His Phe Arg Gly Gly Ser Val Cys Ala Ala Glu Glu

1

5

10

15

Ser Arg Asp Lys Trp Glu Arg Gly Ser Gln Ala Lys Gly Pro Ala Cys

20

25

30

Ala Lys Ala Gln Arg Leu Gln Ser Ala Cys Ala Ile Ser Pro Gly Gln

35

40

45

Glu Thr His Leu Pro Glu Arg Arg Pro Glu Ala Val Thr Ala Xaa Xaa

50

55

60

Xaa Xaa

65

70

75

80

Xaa Arg Phe Leu Asn Pro Ala Met Ser Gly Glu Phe Gln Ile Ala Lys

85

90

95

Ser Cys Cys

<210> 212

<211> 50

<212> PRT

<213> Homo sapiens

<400> 212

Met Ala Ala Thr Cys His Thr Val Ser Pro His Glu Gly Gly Val

1

5

10

15

Leu Ser Ala Val Ile Ile Tyr Thr Trp Leu Glu Asp Leu Gln Asp Arg

20

25

30

Asn Phe Leu Lys Ile Pro Leu His Ser Asp Tyr Glu Ser Lys Ile Tyr

35

40

45

Ser Leu

50

<210> 213

<211> 73  
<212> PRT  
<213> Homo sapiens

<400> 213  
Met Arg His Pro Leu Ile Val Trp Pro Gly Leu Val Ser Gly Ser Ala  
1 5 10 15  
  
Arg Arg Val Leu Leu Gly Trp Ala Val Phe Leu Pro Ser Gly Ser Asp  
20 25 30  
  
Gly Gly Ser Glu Pro Trp Pro Pro Leu Gly Gly His Ala Val Gln Pro  
35 40 45  
  
Gly Gln Leu Pro Gly Val Cys Pro Gly His Cys Tyr Gly Leu Arg Arg  
50 55 60  
  
Val Thr Gly Arg Tyr Gln Ile Ser Pro  
65 70

<210> 214  
<211> 143  
<212> PRT  
<213> Homo sapiens

<400> 214  
Arg Pro Gln Glu Arg Leu Glu Asp Val Glu Gln Lys Trp Ile Leu Pro  
1 5 10 15  
  
Cys Asp Arg Gln Leu Arg Lys Gln Ser Val Ile Thr Lys Ser Phe Ser  
20 25 30  
  
Phe Leu Phe Phe Phe Phe Phe Phe Phe Leu Arg Gln Ser Leu  
35 40 45  
  
Ala Leu Ser Ala Arg Leu Glu Cys Ser Gly Met Ile Leu Ala His Cys  
50 55 60  
  
Asn Leu Cys Leu Thr Gly Ser Ser Asn Ser Pro Ala Ser Ala Ser Arg  
65 70 75 80  
  
Val Ala Gly Ile Thr Gly Met Cys His His Ala Ala Pro Ile Phe Val  
85 90 95  
  
Phe Leu Val Glu Thr Gly Phe His His Val Gly Gln Ala Gly Leu Glu  
100 105 110

Leu Leu Thr Ser Gly Asn Pro Pro Thr Ser Ala Ser Gln Ser Ala Gly  
115 120 125

Ile Thr Gly Val Ser His His Thr Arg Pro Thr Lys Ser Phe Phe  
130 135 140

<210> 215

<211> 65

<212> PRT

<213> Homo sapiens

<400> 215

Met Thr Thr Lys Ile Met Leu Gln Arg Asp Asn Ile Leu Ile Lys Phe  
1 5 10 15

Cys Val Leu Leu Gln Tyr Leu Val Phe Lys Ile Ser Glu Leu Ser Leu  
20 25 30

Gln His Phe Thr Asn Asn Lys Trp Leu Met Leu Glu Asn Asn Arg Asn  
35 40 45

Asp Leu Phe Arg Pro His Val Asn Pro Cys Val Lys Asp Lys Gln Val  
50 55 60

Phe

65

<210> 216

<211> 41

<212> PRT

<213> Homo sapiens

<400> 216

Met Lys Glu Gly Ser Leu Gly Arg Leu Val Tyr Lys Leu Gln Lys Leu  
1 5 10 15

His Gln Pro His Pro Ser Ser Ser Pro Cys Ser Ser Asn Asn Ile Thr  
20 25 30

Gly Phe Leu Cys Val Lys Thr Phe Phe

35 40

<210> 217

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (5)

<220>

<221> UNSURE

<222> (11)..(16)

<400> 217

Met Pro Lys Arg Xaa Gln Ala Tyr Thr His Xaa Xaa Ala Xaa Xaa Xaa  
1 5 10 15

Ser Phe Asn Ser His His Gln Phe Val Arg  
20 25

<210> 218

<211> 38

<212> PRT

<213> Homo sapiens

<400> 218

Met Phe Val Ile His Val Tyr Val Lys Leu Lys Lys Tyr Thr His Pro  
1 5 10 15

Asn Leu Leu Gly Ile Pro Ser Leu Lys Ile Asn Leu Ile Tyr Ile His  
20 25 30

Arg Asn Ile Asn Thr Gly

35

<210> 219

<211> 26

<212> PRT

<213> Homo sapiens

<400> 219

Met Val Cys Ser Ile Leu Arg Ala Thr Ser Phe Ala Met Ser Asn Thr  
1 5 10 15

Phe Glu Ile His Pro Tyr Phe Ser Val Tyr  
20 25

<210> 220

<211> 107  
<212> PRT  
<213> Homo sapiens

<400> 220

Phe	Phe	Phe	Phe	Leu	Gly	Arg	Ser	Phe	Val	Leu	Leu	Pro	Arg	Leu	Glu
1				5					10				15		
Cys	Asn	Gly	Ala	Val	Trp	Ala	His	Cys	Asn	Leu	Cys	Leu	Pro	Gly	Ser
	20							25					30		
Ser	Asp	Ser	Pro	Ala	Ser	Ala	Ser	Ala	Val	Ala	Gly	Ile	Thr	Gly	Ala
	35						40					45			
His	His	Gln	Val	Trp	Leu	Ile	Phe	Val	Phe	Leu	Val	Glu	Met	Gly	Leu
	50				55					60					
Thr	His	Val	Gly	Gln	Ala	Gly	Leu	Lys	Leu	Leu	Thr	Ser	Ser	Asn	Pro
	65					70				75				80	
Pro	Thr	Leu	Ala	Ser	Gln	Ser	Ala	Gly	Ile	Thr	Gly	Met	Ser	His	His
	85					90						95			
Ala	Gln	Pro	Glu	Cys	Thr	Phe	Ile	Ala	Ala	Val					
	100					105									

<210> 221  
<211> 75  
<212> PRT  
<213> Homo sapiens

<400> 221

Met	Ser	Phe	Val	Leu	Phe	Val	His	Leu	Phe	Leu	Ser	Val	Ala	His	Ser
1				5					10				15		
Pro	Arg	Phe	Leu	Cys	Leu	Thr	Phe	Ile	His	Ser	Ala	Gly	Leu	Leu	His
	20					25						30			
His	Ser	Pro	Asn	Pro	Leu	Asp	Ala	Cys	Val	Gly	Pro	Gly	Val	Asn	Ser
	35					40					45				
Leu	Ser	Pro	Met	Val	Pro	Arg	Glu	Gly	Leu	Gly	Ser	Ser	Ala	Trp	Ser
	50				55					60					
Gln	Ser	Leu	Pro	Thr	Arg	Tyr	Cys	Leu	Lys	Lys					
	65				70					75					

<210> 222  
<211> 53  
<212> PRT  
<213> Homo sapiens

<220>  
<221> UNSURE  
<222> (25)

<220>  
<221> UNSURE  
<222> (28) .. (50)

<400> 222  
Met Tyr Tyr Thr Leu Asp Ile Glu Leu Asp Val Phe Pro Ile Ser Glu  
1 5 10 15

His Leu Thr Tyr Thr Lys Ile Leu Xaa His Gly Xaa Xaa Xaa Xaa Xaa  
20 25 30  
Xaa  
35 40 45

Xaa Xaa Asn Val Lys  
50

<210> 223  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 223  
Met Gly Gly Gly Ala Ser Gln Arg Arg Trp Gln Glu Thr Arg Ala Cys  
1 5 10 15

Gln Gly Cys Thr Leu Cys Phe Tyr Leu Arg Ala Ser Leu Asp Gly Lys  
20 25 30

Thr Asp Gly Asp Cys Gly Leu Asn Ala Ser Asn Pro Leu Leu Lys Met  
35 40 45

Thr Thr Gly Cys Ser Thr Ser Thr  
50 55

<210> 224

<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 224  
Met Lys Arg Ile Asn Phe Val Gly Lys Ser Lys Trp Leu Leu Lys Ile  
1 5 10 15  
  
Gln Ile Lys Pro Val Lys Ile Lys Tyr Arg Gln Asn  
20 25

<210> 225  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 225  
Met Asn Ile Leu Gly Val Gly Ser Glu Cys Ile Arg Arg Phe Asn Lys  
1 5 10 15  
  
Ala Val Trp Gly Ile Asn Ile Lys Ser Lys Gly Phe Ile Leu Ile Leu  
20 25 30  
  
Arg Ser Val Lys Tyr Thr Pro Thr Leu Arg  
35 40

<210> 226  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 226  
Met Thr Trp Ser Gln Met Lys Gly His Phe Asp Pro Phe Phe Asp Phe  
1 5 10 15  
  
Asn Pro Lys Leu Ser Ala Asn Met Phe Tyr Phe Leu Ala Lys Val Ile  
20 25 30  
  
Leu Asp Ala Thr Trp His Tyr Ile Lys Asn Phe Asn Val Leu Glu Ser  
35 40 45  
  
Tyr Val Leu Asp Ser Lys Glu Leu Leu Trp Gly  
50 55

<210> 227

<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 227  
Met Glu Ser Lys Asn Phe Pro Pro Pro Thr Pro Thr Val Phe Gln Cys  
1 5 10 15  
  
His Asn Tyr Lys Val Ser Leu Lys Tyr Tyr Leu Ile His Ser Asn Lys  
20 25 30  
  
Ser Lys Gly Phe Val Ser Ser Trp Phe Tyr Cys  
35 40

<210> 228  
<211> 127  
<212> PRT  
<213> Homo sapiens

<400> 228  
Gly Leu Gln Ala Ala Ala Thr Thr Leu Ser Gln Lys Ile Val Phe Lys  
1 5 10 15  
  
Gly Ser Phe Arg Leu Tyr Pro Glu Lys Val Ser Tyr Ala Ile Phe Phe  
20 25 30  
  
Ser Arg Gln Ser Leu Ala Leu Leu Pro Arg Leu Glu Cys Ser Gly Ala  
35 40 45  
  
Ile Ser Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Asn Ser Pro  
50 55 60  
  
Ala Ser Ala Ser Ala Val Ala Gly Thr Val Gly Met Tyr His His Ala  
65 70 75 80  
  
Gln Leu Ile Phe Ile Phe Leu Val Glu Met Gly Phe Cys His Ile Gly  
85 90 95  
  
Gln Ala Gly Leu Lys Leu Leu Asn Ser Ser Asp Thr Pro Thr Leu Ala  
100 105 110  
  
Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His Thr Gly Pro  
115 120 125

<210> 229  
<211> 47

<212> PRT

<213> Homo sapiens

<400> 229

Met Tyr His Leu Asp Asn His Leu Thr Leu Phe His Thr Ala Gln Leu  
1 5 10 15

Tyr Ser Arg Asn His Leu Gln Leu Leu Lys Lys Val Ser Glu Ile Gln  
20 25 30

Ser Tyr Phe Tyr Ser Gly Lys Glu Val Pro Ser Ile Val Thr Ser  
35 40 45

<210> 230

<211> 25

<212> PRT

<213> Homo sapiens

<400> 230

Met Arg Leu Trp Cys Val Ser Glu Ser Leu Arg Glu Ala Val Phe Ser  
1 5 10 15

Lys Gln Val Gly Leu Cys Trp Thr Asp  
20 25

<210> 231

<211> 48

<212> PRT

<213> Homo sapiens

<400> 231

Met Ile Cys Leu Glu Val Asn Leu Asn Pro Leu Tyr Pro Phe Asn Leu  
1 5 10 15

Glu Ile Ala Ser Phe Arg Ser Trp Lys Val Pro Phe Pro Leu Ser Leu  
20 25 30

Ser Phe Leu Ser Gly Thr Leu Ile Val Lys Asn Trp Thr Ser Leu Ile  
35 40 45

<210> 232

<211> 92

<212> PRT

<213> Homo sapiens

<400> 232

Met Thr Pro Gly Ala Gln Ser His Val Leu Ile Gln Asn His Trp Phe  
1 5 10 15

Lys Cys Pro Cys Gly Arg Cys Lys Phe Pro Gly Asn Leu Leu Arg Gln  
20 25 30

Asn Gly Leu Trp Gln Leu Lys Ser Ser Pro Leu Thr Asp Thr Gly Ile  
35 40 45

Gly Cys Gly Gly Glu Ser Thr Pro Gly Ala Met Cys Val Lys Arg Leu  
50 55 60

Met Asn Ser Ser Ser Tyr Gly Trp Ser Ala Asp Ile Met Cys Tyr Leu  
65 70 75 80

Tyr Ile Asp Leu Leu Asn Phe Ser Phe Ser Ala Met  
85 90

<210> 233

<211> 35

<212> PRT

<213> Homo sapiens

<400> 233

Met Asn Lys Cys Lys Tyr Ser Phe Asn Tyr Asn Tyr Ser His Ala Ser  
1 5 10 15

Leu Ile Ile Leu Ile Phe Val Gly Arg Lys Gln Val Ser Asn Val Phe  
20 25 30

Leu Ile Lys  
35

<210> 234

<211> 33

<212> PRT

<213> Homo sapiens

<400> 234

Met Gly Ser Ile His Thr Phe Tyr Asn Pro Glu Ile Gln Ala Ile Leu  
1 5 10 15

Val Thr Thr Asn Ala Leu Phe Trp Arg Ile Val Val Arg Trp Lys Lys  
20 25 30

Asn

<210> 235

<211> 105

<212> PRT

<213> Homo sapiens

<400> 235

Asn Ala Gln Phe Phe Cys Tyr Val Val Phe Glu Thr Gly Ser Arg  
1 5 10 15

Ser Ala Ala Gln Ala Gly Val Gln Trp Gln Asp His Gly Leu Leu Gln  
20 25 30

Pro Ala Pro Pro Gly Leu Lys Gln Phe Ser Leu Leu Ser Leu Gln Ser  
35 40 45

Ser Trp Asp Tyr Arg Gln Val Pro Pro Arg Leu Thr Asn Phe Ala Ile  
50 55 60

Phe Cys Arg Asp Gly Val Ser His Leu Ala Gln Ala Gly Leu Glu Leu  
65 70 75 80

Leu Gly Ser Ser Lys Pro Pro Thr Ser Ala Ser Gln Ser Pro Arg Ile  
85 90 95

Thr Gly Val Ser His Cys Pro Gln Pro  
100 105

<210> 236

<211> 43

<212> PRT

<213> Homo sapiens

<400> 236

Met Phe Ile Glu Leu Leu Gln Gly Thr Trp Val Leu Lys Thr Arg Gln  
1 5 10 15

Ile Cys Phe Tyr Asn His Ile Ser His Phe Gln Ser Leu Ser Lys Glu  
20 25 30

Phe Val Val Gln Leu Leu Ala Ile Phe Tyr Cys

<210> 237  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 237  
Met Thr Gly Val Phe Ser Glu Ile Ser Glu Arg Pro His Asn Leu Arg  
1 5 10 15  
  
Leu Asn Lys Glu Gly Ile Arg Ile Gly Asn Thr  
20 25

<210> 238  
<211> 98  
<212> PRT  
<213> Homo sapiens

<400> 238  
Met Leu Ser Leu Asn Thr His Ala Val Gln Pro Gly Gly Pro Phe Ile  
1 5 10 15  
  
Phe Pro Leu Leu Asn Ser Ser Pro Ser Gln Val Leu Ser Ala Pro Leu  
20 25 30  
  
Phe Leu Cys Ile Pro Thr Thr Ser Gly Cys Asn Phe Thr Gly Trp Phe  
35 40 45  
  
Lys His Ser Leu Ser Cys Val Thr Tyr Pro Cys Thr Cys Pro Ser Leu  
50 55 60  
  
Leu Thr Ile Asn Ser Leu Trp Ala Asp Thr Val Ser Pro Thr Leu Gly  
65 70 75 80  
  
Pro His Arg Ala Pro Ala Gln Thr Leu Pro Ser Val Leu Leu Leu Thr  
85 90 95  
  
Ala Thr

<210> 239  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 239

Arg Lys Lys Ile Leu Lys Phe Leu Glu Thr Asn Glu Asn Gly Asn Thr  
1 5 10 15

Thr Tyr Ala Asn Leu Gln Asp Thr Ala Lys Thr Val Leu Ala Arg Lys  
20 25 30

Phe Ile Ala Lys Ser Ala Tyr Ile Lys Lys Val Glu Lys Leu Gln Ile  
35 40 45

Asn Asn Leu Lys Met Asn Leu Lys Glu Leu Glu  
50 55

<210> 240

<211> 53

<212> PRT

<213> Homo sapiens

<400> 240

Met Leu Arg Lys His Phe Asp Trp Arg Gln Arg Thr Lys Ser Tyr Ser  
1 5 10 15

Ile Asn Ser Thr Ser Ser Val Leu Arg Ser Gln Lys Asp His Asp Leu  
20 25 30

Val Tyr Ile His Ile Phe Leu Ile Lys Glu Glu Gly Tyr Tyr Ser Arg  
35 40 45

Asn Leu Tyr Lys Ile

50

<210> 241

<211> 44

<212> PRT

<213> Homo sapiens

<400> 241

Met Gly Arg Lys Leu His Arg Thr Ser Leu Asn Gln Arg Met Glu Lys  
1 5 10 15

Asp Thr Leu Arg Ile Gly Lys Val Glu Lys Ser Gln Arg Gly Met Leu  
20 25 30

His Tyr Glu Ala Phe Gly Gln Trp Ala Thr Gln Gly  
35 40

<210> 242  
<211> 89  
<212> PRT  
<213> Homo sapiens

<400> 242  
Met Leu Val Arg Ile Leu Ala Phe Thr Leu Pro Gln Val Thr Glu Gly  
1 5 10 15  
  
Arg Gly Asn Ser Gly Met Ile Thr Glu Glu Gln Leu Lys Arg Ser Lys  
20 25 30  
  
Pro Gln Arg Lys Cys Phe Leu Ala Ser Ile Ser Leu Tyr Val Lys Arg  
35 40 45  
  
Val Asn Ile Arg Ser His Asn Ile Glu His Leu Leu Pro Gly Ala Met  
50 55 60  
  
Leu Asn Ala Leu His Ala Leu Asn His Ser Phe Asn Lys His Leu Leu  
65 70 75 80  
  
Ser Thr Cys Tyr Val Gln Val Leu Phe  
85

<210> 243  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 243  
Met Cys Ser Leu Leu His Lys Ala Ser Gln Gln Ser Tyr Asn Val Gly  
1 5 10 15  
  
Ile Ile Thr Ala Ile Leu Tyr Leu Arg Thr Arg Arg Pro Arg Glu Val  
20 25 30  
  
Lys

<210> 244  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 244

Met Ser Phe Val Arg Thr Thr Leu Thr Leu Gly His Gly Tyr Pro Pro  
1 5 10 15

Thr His Pro Ala Pro Thr Ala Phe Ile His Ser Leu Ser Gln Ala Glu  
20 25 30

Lys Glu Arg Lys Val Phe  
35

<210> 245

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (4)

<400> 245

Met Leu Lys Xaa Leu Ile Phe Phe Val Val Glu Ile Gln Thr Val Ile  
1 5 10 15

Leu Asn Ser Tyr Gln Lys Ser Leu Asn Ser Val Leu Thr Thr Val Asn  
20 25 30

Gly Arg Thr Tyr Ser Pro Leu Ser Phe Cys  
35 40

<210> 246

<211> 48

<212> PRT

<213> Homo sapiens

<400> 246

Met Cys Met Glu Asn Asn Glu Tyr Phe Ile Tyr His Tyr Phe Leu Ile  
1 5 10 15

Tyr Ile His Thr His Lys Phe Ile Ile Leu Ser Leu Met Arg His Gln  
20 25 30

Phe Tyr Ile Gln Leu Asn Ser His Cys Asn Cys Val Pro Ser Gln Leu  
35 40 45

<210> 247  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 247  
Met Cys Leu Ala Thr Asn Leu Asn Leu Glu Tyr Tyr Leu Ile Tyr Pro  
1 5 10 15

Phe Leu Pro Ser Pro Arg Ile Lys Arg Asp Ala Val Ile Tyr Phe Leu  
20 25 30

Lys Ile Trp  
35

<210> 248  
<211> 94  
<212> PRT  
<213> Homo sapiens

<400> 248  
Phe Arg Phe Ile Phe Phe Phe Leu Arg Gln Ser His Ser Val Ala  
1 5 10 15

Arg Leu Lys Cys Ser Asp Thr Val Ser Ala His Cys Asn Val Cys Leu  
20 25 30

Pro Asp Ala Ser Asp Ser Arg Ala Ser Ala Thr Glu Val Ala Gly Ile  
35 40 45

Thr Gly Met His His His Thr Pro Leu Ile Phe Val Phe Leu Val Glu  
50 55 60

Thr Glu Phe His His Val Gly Gln Ala Ala Asn Ser Ala Ala Gln Val  
65 70 75 80

Ile Leu Pro Pro Gln Leu Pro Lys Val Leu Ala Leu Gln Ala  
85 90

<210> 249  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 249

Met Thr Glu Asp Ile Thr Tyr Thr Ile Ile Ile Thr Tyr Asn Ile Tyr  
1 5 10 15

Asn

<210> 250

<211> 69

<212> PRT

<213> Homo sapiens

<400> 250

Leu Leu Gly Ser Ser Asp Pro Pro Ala Ser Ala Ser Gln Val Ala Gly  
1 5 10 15

Thr Thr Gly Met Phe His His Thr Ser Leu Ile Leu Asn Ile Phe Cys  
20 25 30

His Tyr Val Pro Gln Pro Gly Leu Lys Leu Leu Ala Ser Thr Ser Pro  
35 40 45

Pro Ser Leu Thr Ser Gln Ser Val Arg Ile Met Gly Met Ser His Arg  
50 55 60

Ala Trp Pro Thr Phe  
65

<210> 251

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (4)..(16)

<220>

<221> UNSURE

<222> (18)

<400> 251

Met Tyr Ile Xaa  
1 5 10 15

Tyr Xaa Thr Ile Trp Leu Ala Ile Tyr Glu Pro Arg Pro Glu Gly Arg

20

25

30

Ala Asp Thr Lys Arg Arg Phe Leu Lys Met Ile  
35 40

<210> 252

<211> 73

<212> PRT

<213> Homo sapiens

<400> 252

Met Glu Leu Leu Phe Ile Met Lys Ile Pro Lys Ser Ala Ala Glu Ile  
1 5 10 15

Leu Lys Arg Glu Leu Leu Ile Thr Ile Asn Tyr Thr Ala Gln His Phe  
20 25 30

Pro Phe Phe Leu Phe Phe Leu Val Pro Met Leu Gly Arg Lys Pro Glu  
35 40 45

Tyr Glu Gln Glu Leu Phe Tyr Leu Leu Val Glu Lys Gly Gln Phe Ala  
50 55 60

Val Glu Arg Met Cys Val Ser Ser Val  
65 70

<210> 253

<211> 58

<212> PRT

<213> Homo sapiens

<400> 253

Met Val Leu Ile Met Asp Asp Arg Phe Phe Phe Leu Leu Ala Lys Leu  
1 5 10 15

Glu Val Gly Asn Pro Arg Leu Leu Phe Leu Pro Phe Pro Lys Phe Gln  
20 25 30

Ser Phe Thr Ser Leu Arg Asn Pro Arg Ile Ser Val Leu Lys Lys Leu  
35 40 45

Lys Pro Leu Thr Arg Ile Arg Gly Cys Ala  
50 55

<210> 254

<211> 79  
<212> PRT  
<213> Homo sapiens

<220>  
<221> UNSURE  
<222> (29) . . (73)

<400> 254

Met	Gly	Ile	Ser	Ile	Ser	Thr	Val	Lys	Phe	Ala	Ile	His	Gln	Phe	Lys
1				5						10					15
Gln Ser Ser Thr Ile Phe Phe Thr Arg Ile Leu Leu Xaa Xaa Xaa Xaa															
				20				25							30
Xaa															
				35			40								45
Xaa															
				50			55								60
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Ser Tyr Cys Leu Leu															
				65			70								75

<210> 255  
<211> 82  
<212> PRT  
<213> Homo sapiens

<400> 255

Met	Thr	Val	Phe	Leu	Met	Glu	Pro	Glu	Ile	Asn	Met	Ala	Phe	Cys	Leu
1				5					10						15
Pro Pro Asn Leu Cys Ala Ala Ile Ile Asn Val Val Ser Ile Val Leu															
				20			25								30
Gly Ile Gly Phe Val Ser Ala Ser Leu Glu Pro Ala Lys Glu Glu Met															
				35			40								45
Gln Lys Arg Leu Leu Tyr Ser Ser His Ser Ser Leu Lys Ser Ser Ser															
				50			55								60
Phe His Arg Asn Gly Leu Ser Gln Ala Gly Asn Asp Leu Leu His Cys															
				65			70								80
Trp Leu															

<210> 256

<211> 24

<212> PRT

<213> Homo sapiens

<400> 256

Met Tyr Asn Ser Ser Gly Thr His Asp Asn Ile Thr Leu Asn Thr Gly  
1 5 10 15

Gly Leu Ser Ser His Ser Leu Pro  
20

<210> 257

<211> 1031

<212> PRT

<213> Homo sapiens

<400> 257

Met Val Lys Gly Ser Ile Gln Gln Glu Glu Leu Thr Ile Leu Asn Ile  
1 5 10 15

Tyr Ala Pro Asn Thr Gly Ala Pro Arg Phe Ile Lys Gln Val Leu Ser  
20 25 30

Asp Leu Gln Arg Asp Leu Asp Ser His Thr Leu Ile Met Gly Asp Phe  
35 40 45

Asn Thr Pro Leu Ser Thr Leu Asp Arg Ser Thr Arg Gln Lys Val Asn  
50 55 60

Lys Asp Thr Gln Glu Leu Asn Ser Ala Leu His Gln Ala Asp Leu Ile  
65 70 75 80

Asp Ile Tyr Arg Thr Leu His Pro Lys Ser Thr Glu Tyr Thr Phe Phe  
85 90 95

Ser Ala Pro His His Thr Tyr Ser Lys Ile Asp His Ile Val Gly Ser  
100 105 110

Lys Ala Leu Leu Ser Lys Cys Lys Arg Thr Glu Ile Ile Thr Asn Tyr  
115 120 125

Leu Ser Asp His Ser Ala Ile Lys Leu Glu Leu Arg Ile Lys Asn Leu  
130 135 140

Thr Gln Ser Cys Ser Thr Thr Trp Lys Leu Asn Asn Leu Leu Leu Asn  
145 150 155 160

Asp Tyr Trp Val His Asn Glu Met Lys Ala Glu Ile Lys Met Phe Phe  
165 170 175

Glu Thr Asn Glu Asn Lys Asp Thr Thr Tyr Gln Asn Leu Trp Asp Ala  
180 185 190

Phe Lys Ala Val Cys Arg Gly Lys Phe Ile Ala Leu Asn Ala Tyr Lys  
195 200 205

Arg Lys Gln Glu Arg Ser Lys Ile Asp Thr Leu Thr Ser Gln Leu Lys  
210 215 220

Glu Leu Glu Lys Gln Glu Gln Thr His Ser Lys Ala Ser Arg Arg Gln  
225 230 235 240

Glu Ile Thr Lys Ile Arg Ala Glu Leu Lys Glu Ile Glu Thr Gln Lys  
245 250 255

Thr Leu Gln Lys Ile Asn Glu Ser Arg Ser Trp Phe Phe Glu Arg Ile  
260 265 270

Asn Lys Ile Asp Arg Pro Leu Ala Arg Leu Ile Lys Lys Lys Arg Glu  
275 280 285

Lys Asn Gln Ile Asp Thr Ile Lys Asn Asp Lys Gly Asp Ile Thr Thr  
290 295 300

Asp Pro Thr Glu Ile Gln Thr Thr Ile Arg Glu Tyr Tyr Lys His Leu  
305 310 315 320

Tyr Ala Asn Lys Leu Glu Asn Leu Glu Glu Met Asp Thr Phe Leu Asp  
325 330 335

Thr Tyr Thr Leu Pro Arg Leu Asn Gln Glu Glu Val Glu Ser Leu Asn  
340 345 350

Arg Pro Ile Thr Gly Ser Glu Ile Val Ala Ile Ile Asn Ser Leu Pro  
355 360 365

Thr Lys Lys Ser Pro Gly Pro Asp Gly Phe Thr Ala Glu Phe Tyr Gln  
370 375 380

Arg Tyr Lys Glu Glu Leu Val Pro Phe Leu Leu Lys Leu Phe Gln Ser  
385 390 395 400

Ile Glu Lys Glu Gly Ile Leu Pro Asn Ser Phe Tyr Glu Ala Ser Ile  
405 410 415

Ile Leu Ile Pro Lys Leu Gly Arg Asp Thr Thr Lys Lys Glu Asn Phe  
420 425 430

Arg Pro Ile Ser Leu Met Asn Ile Asp Ala Lys Ile Leu Asn Lys Ile  
435 440 445

Leu Ala Asn Arg Ile Gln Gln His Ile Lys Lys Leu Ile His His Asp  
450 455 460

Gln Val Gly Phe Ile Pro Gly Met Gln Gly Trp Phe Asn Ile Arg Lys  
465 470 475 480

Ser Ile Asn Val Ile Gln His Ile Asn Arg Ala Arg Asp Lys Asn His  
485 490 495

Met Ile Ile Ser Ile Asp Ala Glu Lys Ala Phe Asp Lys Ile Gln Gln  
500 505 510

Pro Phe Met Leu Lys Thr Leu Asn Lys Leu Gly Ile Asp Gly Thr Tyr  
515 520 525

Phe Lys Ile Ile Arg Ala Ile Tyr Asp Lys Pro Thr Ala Asn Ile Ile  
530 535 540

Leu Asn Gly Gln Lys Leu Glu Ala Phe Pro Leu Lys Thr Gly Thr Arg  
545 550 555 560

Gln Gly Cys Pro Leu Ser Pro Leu Leu Phe Asn Ile Val Leu Glu Val  
565 570 575

Leu Ala Arg Ala Ile Arg Gln Glu Lys Glu Ile Lys Gly Ile Gln Leu  
580 585 590

Gly Lys Glu Glu Val Lys Leu Ser Leu Phe Ala Asp Asp Met Ile Leu  
595 600 605

Tyr Leu Glu Asn Pro Ile Val Ser Ala Gln Asn Leu Leu Lys Leu Ile  
610 615 620

Ser Asn Phe Ser Lys Val Ser Gly Tyr Lys Ile Asn Val Gln Lys Ser  
625 630 635 640

Gln Ala Phe Leu Tyr Thr Asn Asn Arg Gln Thr Glu Ser Gln Ile Met  
645 650 655

Ser Glu Leu Pro Phe Thr Ile Ala Ser Lys Arg Val Lys Tyr Leu Gly  
660 665 670

Ile Gln Leu Thr Arg Asp Val Lys Asp Leu Phe Lys Glu Asn Tyr Lys  
675 680 685

Pro Leu Leu Lys Glu Ile Lys Glu Asp Thr Asn Lys Trp Lys Asn Ile  
690 695 700

Pro Cys Ser Trp Val Gly Arg Ile Asn Ile Val Lys Met Ala Ile Leu  
705 710 715 720

Pro Lys Val Ile Tyr Arg Phe Asn Ala Ile Pro Ile Lys Leu Pro Met  
725 730 735

Thr Phe Phe Thr Glu Leu Glu Lys Thr Thr Leu Lys Phe Ile Trp Asn  
740 745 750

Gln Lys Arg Ala Arg Ile Ala Lys Ser Ile Leu Ser Gln Lys Asn Lys  
755 760 765

Ala Gly Gly Ile Thr Leu Pro Asp Phe Lys Leu Tyr Tyr Lys Ala Thr  
770 775 780

Val Thr Lys Thr Ala Trp Tyr Trp Tyr Gln Asn Arg Asp Ile Asp Gln  
785 790 795 800

Trp Asn Arg Thr Glu Pro Ser Glu Ile Met Pro His Ile Tyr Asn Tyr  
805 810 815

Leu Ile Phe Asp Lys Pro Glu Lys Asn Lys Gln Trp Gly Lys Asp Ser  
820 825 830

Leu Phe Asn Lys Trp Cys Trp Glu Asn Trp Leu Ala Ile Cys Arg Lys  
835 840 845

Leu Lys Leu Asp Pro Phe Leu Thr Pro Tyr Thr Lys Ile Asn Ser Arg  
850 855 860

Trp Ile Lys Asp Leu Asn Val Arg Pro Lys Thr Ile Lys Thr Leu Glu  
865 870 875 880

Glu Asn Leu Gly Ile Thr Ile Gln Asp Ile Gly Val Asp Lys Asp Phe  
885 890 895

Met Ser Lys Thr Pro Lys Ala Met Ala Thr Lys Ala Lys Ile Asp Lys  
900 905 910

Trp Asp Leu Ile Lys Leu Lys Ser Phe Cys Thr Ala Lys Glu Thr Thr  
915 920 925

Ile Arg Val Asn Arg Gln Pro Thr Thr Trp Glu Lys Ile Phe Ala Thr  
930 935 940

Tyr Ser Ser Asp Lys Gly Leu Ile Ser Arg Ile Tyr Asn Glu Leu Lys  
945 950 955 960

Gln Ile Tyr Lys Lys Lys Thr Asn Asn Pro Ile Lys Lys Trp Ala Lys  
965 970 975

Asp Met Asn Arg His Phe Ser Lys Glu Asp Ile Tyr Ala Ala Lys Lys  
980 985 990

His Met Lys Lys Cys Ser Ser Ser Leu Ala Ile Arg Glu Met Gln Ile  
995 1000 1005

Lys Thr Thr Met Arg Tyr His Leu Thr Pro Val Arg Met Ala Ile Ile  
1010 1015 1020

Lys Lys Ser Gly Asn Asn Arg  
1025 1030

<210> 258

<211> 24

<212> PRT

<213> Homo sapiens

<400> 258

Met Gly Lys Ile Gly Gly Leu Asn Phe Val Lys Ile Leu Asn Gln  
1 5 10 15

Val Ser Asp Ile Leu Ser Gly Ala  
20

<210> 259

<211> 46

<212> PRT

<213> Homo sapiens

<400> 259

Arg Val Gly Tyr Ser Gly Ile Ile Ala Tyr Cys Ser Leu Gln Leu  
1 5 10 15

Leu Cys Ser Arg Asp Pro Pro Thr Ser Ala Ser Gln Val Ile Gly Thr

20

25

30

Ile Gly Met Cys His Cys Thr Trp Leu Leu Leu Ala Ile Leu  
35 40 45

<210> 260

<211> 28

<212> PRT

<213> Homo sapiens

<400> 260

Met Gly Tyr His Met Gly Arg Arg Met Ser Met Leu Thr Cys Leu His  
1 5 10 15

Arg Ser Phe Phe Leu Phe Leu Tyr Ser His Gln Phe  
20 25

<210> 261

<211> 21

<212> PRT

<213> Homo sapiens

<400> 261

Met Asn Ile Val Lys Arg Lys Ser Pro Lys Tyr Pro Asn Leu Leu Asn  
1 5 10 15

Leu Phe His Ile Glu  
20

<210> 262

<211> 93

<212> PRT

<213> Homo sapiens

<400> 262

Tyr Val Phe Phe Phe Ala Asp Gly Val Ser Leu Leu Ser Pro Arg Leu  
1 5 10 15

Glu Cys Ser Gly Ala Ile Ser Ala His Cys Asn Leu Cys Thr Pro Gly  
20 25 30

Ser Ser Asp Ser Pro Ala Ser Ala Ser Ala Val Ala Gly Ile Pro Gly  
35 40 45

Thr His Arg His Pro Trp Leu Ile Phe Val Phe Leu Val Glu Thr Gly

50

55

60

Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Leu Met Ile  
65 70 75 80

Arg Pro His Gln Pro Pro Lys Val Leu Gly Leu Gln Ala  
85 90

<210> 263

<211> 37

<212> PRT

<213> Homo sapiens

<400> 263

Met Cys Asp Asn His Gly Thr Lys Ser Arg Trp Thr Lys Trp Lys Tyr  
1 5 10 15

Thr Val Val Arg Phe Leu Tyr Arg Ile Leu Asn Gly Val Met Ala Phe  
20 25 30

Lys Ser Asn Leu Trp  
35

<210> 264

<211> 31

<212> PRT

<213> Homo sapiens

<400> 264

Met Gly Pro Tyr Cys Met Ala Arg Leu Tyr Lys Ser Tyr Phe His Leu  
1 5 10 15

Tyr Ile Ser Glu Lys Arg Leu Pro Ile Ser Ile Val Leu Ser Asp  
20 25 30

<210> 265

<211> 64

<212> PRT

<213> Homo sapiens

<400> 265

Met Thr Gln Asn Phe Asp Pro Tyr Leu His Val Leu Asn Arg Gln Phe  
1 5 10 15

Pro Pro Leu Gln Lys Ser Pro Pro Pro Trp Lys Ala Pro Thr Leu Pro

20

25

30

Arg Val Pro Ala His Glu Ala Phe Ser Gly Ser Pro Ala Lys Val His  
35 40 45

Cys Cys Pro Leu His Ala Leu Leu Tyr Thr Ala Pro Leu His Ala  
50 55 60

<210> 266

<211> 76

<212> PRT

<213> Homo sapiens

<400> 266

Gly Ser Ser Asp Ser Pro Ala Ser Thr Ser Gln Val Ala Gly Ile Ile  
1 5 10 15

Gly Val Cys His His Thr Arg Leu Ile Phe Val Phe Leu Val Glu Thr  
20 25 30

Gly Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Ser  
35 40 45

Asp Pro Pro Thr Ser Ala Ser Gln Thr Ala Gly Ile Thr Gly Val Ser  
50 55 60

His Arg Ala Gly Pro Leu Thr Ala Cys Ala Thr Phe  
65 70 75